Class 4<sup>th</sup> Science Paper

1. Vertebrates are the animals having
   a) Back bone
   b) No Backbone
   c) Spiral like structure
   d) Both a & c
      Answer (a)
2. Frog is a
   a) Vertebrate
   b) Invertebrate
   c) Sponga
   d) None of these
      Answer (a)
3. Lemon is a
   a) Mustard plant
   b) Flowering Plant
   c) Non-Flowering Plant
   d) None of these
      Answer (b)
4. Thuja is a
   a) Mustard plant
   b) Flowering Plant
   c) Non-Flowering Plant
   d) None of these
      Answer (c)
5. Biting & cutting food is the function of
   a) Incisors
   b) Premolars
   c) Molars
   d) Canines
      Answer (a)
6. Chewing & grinding food is done by?
   a) Incisors
   b) Premolars
   c) Molars
   d) Canines
      Answer (b)
7. Digestive juice is secreted by?
   a) Muscles
   b) Stomach
   c) Liver
   d) Kidney
      Answer (b)

8. Ecosystem is the formed by?
   a) Living things
   b) Non-living things
   c) Both a & b
   d) None of these
   Answer (c )

9. Pond is an example of?
   a) Ecosystem
   b) Community
   c) Population
   d) Both a & c
   Answer (a)

10. Component of ecosystem is
    a) Biotic
    b) Abiotic
    c) Exbiotic
    d) Both a & b
    Answer (d)

11. Consumers are?
    a) Biotic
    b) Abiotic
    c) Exbiotic
    d) Both a & b
    Answer (a)

12. Main energy in ecosystem comes from?
    a) Dead Bodies
    b) Living things
    c) Non-living things
    d) Sun
    Answer (d)

13. Food Chain depends on
    a) Living things
    b) Non-living things
    c) Plants
    d) All of these
    Answer (d)

14. In between lion & zebra, lion is
    a) Prey
    b) Predator
    c) Producer
    d) All of these
    Answer (b)

15. Flu is an
    a) Contagious disease
    b) Non-Contagious disease
    c) Penta disease
    d) All of these
       Answer (a)

16. Polio is an
    a) Contagious disease
    b) Non-Contagious disease
    c) Penta disease
    d) All of these
       Answer (a)

17. TB is an
    a) Contagious disease
    b) Non-Contagious disease
    c) Penta disease
    d) All of these
       Answer (a)

18. Covid-19 is an
    a) Contagious disease
    b) Non-Contagious disease
    c) Penta disease
    d) All of these
       Answer (a)

19. Cancer is an
    a) Contagious disease
    b) Non-Contagious disease
    c) Penta disease
    d) All of these
       Answer (b)

20. Sugar is an
    a) Contagious disease
    b) Non-Contagious disease
    c) Penta disease
    d) All of these
       Answer (b)

21. Vaccination can be the prevention from
    a) Contagious disease
    b) Non-Contagious disease
    c) Penta disease
    d) All of these
       Answer (a)

22. Polio drops can be used to protect from
    a) Contagious disease
    b) Non-Contagious disease
    c) Penta disease
    d) All of these
       Answer  (a)
23. Children must sleep for
    a) 6-8 Hours
    b) 8-10 Hours
    c) 10-12 Hours
    d) 4-8 Hours
       Answer (b)
24. Calcium is a
    a) Mineral
    b) Dry-fruit
    c) Powder
    d) All of these
       Answer (a)
25. Global water day is celebrated on
    a) 21$^{st}$ March
    b) 22$^{nd}$ March
    c) 23$^{rd}$ March
    d) 4$^{th}$ June
       Answer (b)
26. Food is grouped into of
    a) 2
    b) 3
    c) 4
    d) 5
       Answer (c )
27. Solids Maintain their
    a) Shape
    b) Volume
    c) Area
    d) All of these
          Answer (d)
28. Rubber is a
    a) Conductor
    b) Semi-conductor
    c) Non-conductor
    d) Both a & b
       Answer (c)

29. Pencil is a
   a) Conductor
   b) Semi-conductor
   c) Non-conductor
   d) Both a & b
      Answer (c )

30. Metals are
   a) Shiny
   b) Brittle
   c) Solid
   d) Both a & c
      Answer (d)

31. Gold is
   a) Hard
   b) Soft
   c) Brittle
   d) Both a & c
      Answer (b)

32. Chromium is
   a) Dark Blue
   b) Light Blue
   c) Light Pink
   d) All of these
      Answer (b)

33. Aluminum is
   a) Dark Blue
   b) Light Blue
   c) Light Pink
   d) All of these
      Answer (b)

34. Tin is
   a) Dark Blue
   b) Light Blue
   c) Light Pink
   d) All of these
      Answer (c)

35. Nickel is
   a) Dark Blue
   b) Light Blue
   c) Light Pink
   d) All of these
      Answer (c)

36. Football is stopped after covering some distance due to
    a) Friction
    b) Force
    c) Gravity
    d) Low kick
       Answer (a)
37. Brakes is an example of
    a) Friction
    b) Force
    c) Gravity
    d) Slipping
       Answer (a)
38. If we apply the some force on a football, it will travel  longer on
    a) Rocky Soil
    b) Marble Floor
    c) Brick Floor
    d) Ground
       Answer (b)
39. Which machine consists of a grooved wheel?
    a) Lever
    b) Pulley
    c) Inclined Plane
    d) Gear
       Answer (b)
40. Water is on earth is
    a) 70%
    b) 71%
    c) 72%
    d) 75%
       Answer (b)
41. Soil & water have in them?
    a) Air
    b) Space
    c) Molecules
    d) None of these
       Answer (a)
42. Forests provide us
    a) Timber
    b) Habitats
    c) Both a& b
    d) None of these
       Answer (c )

43. Gold is a
    a) Mineral
    b) Salt
    c) Raw Material
    d) Both a & b
       Answer ( a)
44. Copper is a
    a) Mineral
    b) Salt
    c) Raw Material
    d) Both a & b
       Answer ( a)
45. Coal is a
    a) Mineral
    b) Salt
    c) Raw Material
    d) Both a & b
       Answer ( a)
46. Diesel is a
    a) Renewable Source
    b) Non- Renewable Source
    c) Semi-Renewable source
    d) Both a & c
       Answer ( b )
47. Mineral Coal is
    a) Renewable Source
    b) Non- Renewable Source
    c) Semi-Renewable source
    d) Both a & c
       Answer ( b )
48. Forests are
    a) Renewable Source
    b) Non- Renewable Source
    c) Semi-Renewable source
    d) Both a & c
       Answer ( a )
49. Wind Energy is
    a) Renewable Source
    b) Non- Renewable Source
    c) Semi-Renewable source
    d) Both a & c
       Answer ( a )

50. Heat energy except sun is
    a) Renewable Source
    b) Non- Renewable Source
    c) Semi-Renewable source
    d) Both a & c
    Answer ( a )
51. Intensive sun is in
    a) Summer
    b) Winter
    c) Autumn
    d) Storm
    Answer (a)
52. South Pole is covered by
    a) Tropical Zone
    b) Polar Zone
    c) Temperate Zone
    d) None of these
    Answer (b)
53. The hottest temperature in Pakistan was
    a) 43.5 degree
    b) 53.5 degree
    c) 45.5 degree
    d) 44 degree
    Answer (b)
54. The hottest temperature in Pakistan was
    a) 10 degree
    b) -10 degree
    c) 18 degree
    d) -18 degree
    Answer (d)
55. The diameter of Jupiter is
    a) 142800Km
    b) 142600Km
    c) 144800Km
    d) 144600Km
    Answer (a)
56. Neptune is located from sun  in million kilometers>
    a) 4494
    b) 4495
    c) 4496
    d) 4497
    Answer (d)

57. Mercury has
    a) 1 moon
    b) 2 moons
    c) 3 moons
    d) None of these
       Answer (d)

58. Venus has _____ Moons?
    a) 2
    b) 4
    c) 6
    d) None of these
       Answer (d)

59. The number of corner of prism is?
    a) 2
    b) 4
    c) 6
    d) 8
       Answer (c )

60. Saturn has _____ moon?
    a) 0
    b) 1
    c) 2
    d) None of these
       Answer (d)

Class 5<sup>th</sup> Science Paper

1. Lemon is a
   a) Mustard plant
   b) Flowering Plant
   c) Non-Flowering Plant
   d) None of these
      Answer: B
2. Thuja is a
   a) Mustard plant
   b) Flowering Plant
   c) Non-Flowering Plant
   d) None of these
      Answer: C
3. Chewing & grinding food is done by?
   a) Incisors
   b) Premolars
   c) Molars
   d) Canines
      Answer: B
4. Pond is an example of?
   a) Ecosystem
   b) Community
   c) Population
   d) Both a & c
      Answer: A
5. Component of ecosystem is
   a) Biotic
   b) Abiotic
   c) Exbiotic
   d) Both a & b
      Answer: A
6. Polio is an
   a) Contagious disease
   b) Non-Contagious disease
   c) Penta disease
   d) All of these
      Answer: A
7. Chromium is
   a) Dark Blue
   b) Light Blue
   c) Light Pink
   d) All of these
      Answer: D

8. Aluminum is
   a) Dark Blue
   b) Light Blue
   c) Light Pink
   d) All of these
      Answer: B
9. Diesel is a
   a) Renewable Source
   b) Non- Renewable Source
   c) Semi-Renewable source
   d) Both a & c
      Answer: C
10. Mineral Coal is
    a) Renewable Source
    b) Non- Renewable Source
    c) Semi-Renewable source
    d) Both a & c
       Answer: B
11. South Pole is covered by
    a) Tropical Zone
    b) Polar Zone
    c) Temperate Zone
    d) None of these
       Answer: B
12. The hottest temperature in Pakistan was
    a) 10 degree
    b) -10 degree
    c) 18 degree
    d) -18 degree
       Answer: D
13. Venus has _____ Moons?
    a) 2
    b) 4
    c) 6
    d) None of these
       Answer: D
14. The number of corner of prism is?
    a) 2
    b) 4
    c) 6
    d) 8
       Answer: C

15. Saturn has _____ moon?
    a) 0
    b) 1
    c) 2
    d) None of these
       Answer: D
16. Kingdom Monera has
    a) 1 cell
    b) 2 cells
    c) Many cells
    d) None of these
       Answer: A
17. Kingdom Protista live
    a) In water
    b) On water
    c) On earth
    d) None of these
       Answer: A
18. Bacteria are example of Kingdom?
    a) Monera
    b) Protista
    c) Fungi
    d) Animalia
       Answer: A
19. Spirogyra is an example of Kingdom?
    a) Monera
    b) Protista
    c) Fungi
    d) Animalia
       Answer: B
20. Rhizopus is an example of
    a) Monera
    b) Protista
    c) Fungi
    d) Animalia
       Answer: C
21. Mushroom is an example of
    a) Monera
    b) Protista
    c) Fungi
    d) Animalia
       Answer: C

22. Crab is an example of
    a) Monera
    b) Protista
    c) Fungi
    d) Animalia
       Answer: D

23. Maize is an example of?
    a) Monera
    b) Protista
    c) Fungi
    d) Plantae
       Answer: D

24. Maize is an example of
    a) Monocots
    b) Dicots
    c) Tricots
    d) Both a & c
       Answer: A

25. Rose is an example of
    a) Monocots
    b) Dicots
    c) Tricots
    d) Both a & c
       Answer: B

26. Catfish is an example of
    a) Vertebrates
    b) Non-Vertebrates
    c) Sponges
    d) None of these
       Answer: A

27. Toad is an example of
    a) Vertebrates
    b) Non-Vertebrates
    c) Sponges
    d) None of these
       Answer: A

28. Newt is an example of
    a) Vertebrates
    b) Non-Vertebrates
    c) Sponges
    d) None of these
       Answer: A

29. Snake is an example of
    a) Vertebrates
    b) Non-Vertebrates
    c) Sponges
    d) None of these
       Answer: A
30. Salamander is an example of
    a) Vertebrates
    b) Non-Vertebrates
    c) Amphibians
    d) Both a & c
       Answer: D
31. Toad is an example of
    a) Vertebrates
    b) Non-Vertebrates
    c) Amphibians
    d) Both a & c
       Answer: D
32. Dinosaurs are examples of
    a) Vertebrates
    b) Reptiles
    c) Amphibians
    d) Both a & b
       Answer: D
33. Cat is an example of
    a) Reptiles
    b) Amphibians
    c) Mammals
    d) Sponges
       Answer: C
34. Platypus is an example of
    a) Reptiles
    b) Amphibians
    c) Mammals
    d) Sponges
       Answer: C
35. Wasp is an example of
    a) Sponges
    b) Worms
    c) Insects
    d) Molluscs
       Answer: C

36. Snail is an example of
    a) Sponges
    b) Worms
    c) Insects
    d) Molluscs
       Answer: D

37. Which is found in ocean?
    a) Fish
    b) Insects
    c) Amphibians
    d) Echinoderms
       Answer: D

38. Diarrhea is an
    a) Airborne Disease
    b) Waterborne Disease
    c) Food borne Disease
    d) Animal-borne Disease
       Answer: B

39. Hepatitis is ?
    a) Airborne Disease
    b) Waterborne Disease
    c) Food borne Disease
    d) Animal-borne Disease
       Answer: C

40. Potato is an example of
    a) Flower
    b) Stem
    c) Leaf
    d) Tuber
       Answer: D

41. Sexual Reproduction is done in?
    a) Plants
    b) Mammals
    c) Animals
    d) All of these
       Answer: D

42. Gram seed is an example of
    a) Monocots
    b) Dicots
    c) Tricots
    d) Both a & c
       Answer: A

43. Best option for papaya is?
    a) Self-pollination
    b) Cross pollination
    c) Mutual pollination
    d) Both a & c
       Answer: B
44. Carbon dioxide is produced when we burn?
    a) Coal
    b) Fossil Fuel
    c) Both a & b
    d) None of these
       Answer: C
45. Computer components are the example of
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: B
46. Cucumber is an example of?
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: A
47. Mango & Apple is an example of
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: A
48. Mutton is an example of
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: A
49. PEPSI bottle is an example of
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: B

50. Example of condensation is
    a) Milk
    b) Water
    c) Iron
    d) Sand
       Answer: B
51. Sugar is an example of
    a) Solute
    b) Solvent
    c) Universal Solvent
    d) None of these
       Answer: A
52. Eggshell can be removed through
    a) Vinegar
    b) Sulphuric Acid
    c) Citrus Acid
    d) None of these
       Answer: A
53. Rash is an example of
    a) Electrical Charge
    b) Chemical Charge
    c) Ionic Charge
    d) None of these
       Answer: A
54. Example of Huge Magnet is
    a) Earth
    b) Bar Magnet
    c) Sun
    d) Moon
       Answer: A
55. Thickness of earth crust beneath the oceans is
    a) 5Km
    b) 5-70Km
    c) 70Km
    d) None of these
       Answer: A
56. What is important in natural manure?
    a) Salts
    b) Minerals
    c) Vitamins
    d) Decayed Matte
       Answer: B

57. NASA launched space station named?
    a) Sputnik-1
    b) Skylab
    c) Skylab-Alpha
    d) Sputnik-G
       Answer: B
58. NASA established?
    a) ISA
    b) ISG
    c) ISS
    d) IST
       Answer: C
59.  Neptune has?
    a) No moon
    b) 7 Moons
    c) 14 Moons
    d) 21 Moons
       Answer: C
60. Saturn has moons?
    a) 0
    b) 21
    c) 42
    d) 82
       Answer: D

Class 6<sup>th</sup> Science Paper

1. Chewing & grinding food is done by?
   a) Incisors
   b) Premolars
   c) Molars
   d) Canines
      Answer: B

2. Polio is an
   a) Contagious disease
   b) Non-Contagious disease
   c) Penta disease
   d) All of these
      Answer: A

3. Chromium is
   a) Dark Blue
   b) Light Blue
   c) Light Pink
   d) All of these
      Answer: D

4. Diesel is a
   a) Renewable Source
   b) Non- Renewable Source
   c) Semi-Renewable source
   d) Both a & c
      Answer: C

5. Mineral Coal is
   a) Renewable Source
   b) Non- Renewable Source
   c) Semi-Renewable source
   d) Both a & c
      Answer: B

6. South Pole is covered by
   a) Tropical Zone
   b) Polar Zone
   c) Temperate Zone
   d) None of these
      Answer: B

7. Saturn has _____ moon?
   a) 0
   b) 1
   c) 2
   d) None of these
      Answer: D

8. Newt is an example of
   a) Vertebrates
   b) Non-Vertebrates
   c) Sponges
   d) None of these
      Answer: A
9. Salamander is an example of
   a) Vertebrates
   b) Non-Vertebrates
   c) Amphibians
   d) Both a & c
      Answer: D
10. Dinosaurs are examples of
    a) Vertebrates
    b) Reptiles
    c) Amphibians
    d) Both a & b
       Answer: D
11. Platypus is an example of
    a) Reptiles
    b) Amphibians
    c) Mammals
    d) Sponges
       Answer: C
12. Snail is an example of
    a) Sponges
    b) Worms
    c) Insects
    d) Molluscs
       Answer: D
13. Which is found in ocean?
    a) Fish
    b) Insects
    c) Amphibians
    d) Echinoderms
       Answer: D
14. Diarrhea is an
    a) Airborne Disease
    b) Waterborne Disease
    c) Food borne Disease
    d) Animal-borne Disease
       Answer: B

15. Hepatitis is ?
    a) Airborne Disease
    b) Waterborne Disease
    c) Food borne Disease
    d) Animal-borne Disease
       Answer: C
16. Sexual Reproduction is done in?
    a) Plants
    b) Mammals
    c) Animals
    d) All of these
       Answer: D
17. Best option for papaya is?
    a) Self-pollination
    b) Cross pollination
    c) Mutual pollination
    d) Both a & c
       Answer: B
18. Carbon dioxide is produced when we burn?
    a) Coal
    b) Fossil Fuel
    c) Both a & b
    d) None of these
       Answer: C
19. Computer components are the example of
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: B
20. Cucumber is an example of?
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: A
21. Mango & Apple is an example of
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: A

22. Mutton is an example of
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: A

23. PEPSI bottle is an example of
    a) Biodegradable sources
    b) Non-biodegradable sources
    c) Semi-biodegradable sources
    d) None of these
       Answer: B

24. Sugar is an example of
    a) Solute
    b) Solvent
    c) Universal Solvent
    d) None of these
       Answer: A

25. Eggshell can be removed through
    a) Vinegar
    b) Sulphuric Acid
    c) Citrus Acid
    d) None of these
       Answer: A

26. Rash is an example of
    a) Electrical Charge
    b) Chemical Charge
    c) Ionic Charge
    d) None of these
       Answer: A

27. Example of Huge Magnet is
    a) Earth
    b) Bar Magnet
    c) Sun
    d) Moon
       Answer: A

28. Thickness of earth crust beneath the oceans is
    a) 5Km
    b) 5-70Km
    c) 70Km
    d) None of these
       Answer: A

29. What is important in natural manure?
    a) Salts
    b) Minerals
    c) Vitamins
    d) Decayed Matte
    Answer: B

30. NASA launched space station named?
    a) Sputnik-1
    b) Skylab
    c) Skylab-Alpha
    d) Sputnik-G
    Answer: B

31. NASA established?
    a) ISA
    b) ISG
    c) ISS
    d) IST
    Answer: C

32. Neptune has?
    a) No moon
    b) 7 Moons
    c) 14 Moons
    d) 21 Moons
    Answer: C

33. Saturn has moons?
    a) 0
    b) 21
    c) 42
    d) 82
    Answer: D

34. Muscular tissue can be found in?
    a) Heart
    b) Bone
    c) Fats
    d) Brain
    Answer: A

35. Connective tissue can be found in?
    a) Heart
    b) Bone
    c) Fats
    d) Brain
    Answer: B

36. Tulips can be reproduced by?
    a) Bulbs
    b) Tubers
    c) Cuttings
    d) Runners
       Answer: A

37. Lilies can be reproduced by?
    a) Bulbs
    b) Tubers
    c) Cuttings
    d) Runners
       Answer: A

38. Onions can be reproduced by?
    a) Bulbs
    b) Tubers
    c) Cuttings
    d) Runners
       Answer: A

39. What is common in fats & proteins?
    a) Carbon
    b) Nitrogen
    c) Neon
    d) Sulphur
       Answer:  A

40. Fuel of the body is?
    a) Vitamin
    b) Carbohydrates
    c) Fats
    d) Fiber
       Answer: B

41. Vitamin C deficiency can lead to?
    a) Berry Berry
    b) Scurvy
    c) Night Blindness
    d) Anaemia
       Answer: B

42. Large molecules are broken down with?
    a) Teeth
    b) Tongue
    c) Muscles
    d) Enzymes
       Answer: D

43. The undigested food is removed through
    a) Ingestion
    b) Digestion
    c) Absorption
    d) Egestion
       Answer: D
44. Stomach produces enzymes & acid for digestion of?
    a) Carbohydrates
    b) Proteins
    c) Fats
    d) Oil
       Answer: B
45. The food we eat is converted by stomach into?
    a) Soupy gel
    b) Soupy mixture
    c) Solid balls
    d) Watery solution
       Answer: B
46. Zinc is?
    a) Ductile
    b) Shiny
    c) Both a & b
    d) None of these
       Answer: C
47. Aluminum is used in manufacturing of
    a) Aircrafts
    b) Fertilizers
    c) Rocked fuels
    d) All of these
       Answer: A
48. Example of hydrocarbons is?
    a) LPG gas
    b) Sodium gas
    c) Methanol
    d) None of these
       Answer: A
49. Which one is not an example of alloy?
    a) Brass
    b) Steel
    c) Iron
    d) Bronze
       Answer: C

50. Soup powder & water makes the solution, solute is
    a) Soap powder
    b) Water
    c) Both a & b
    d) Solution
       Answer: A

51. Energy due to movement is called?
    a) KE
    b) PE
    c) IE
    d) GE
       Answer: A

52. Bow stretched is an example of
    a) KE
    b) PE
    c) IE
    d) GE
       Answer: B

53. Light is an example of energy?
    a) KE
    b) PE
    c) IE
    d) GE
       Answer: A

54. Rida lit a matchstick, it is
    a) Electrical Energy
    b) Chemical Energy
    c) Sound Energy
    d) Air Energy
       Answer: B

55. Which of the following has nothing to do with hydropower?
    a) Burning
    b) Gravity
    c) Sun
    d) Water cycle
       Answer: A

56. Which of the following materials is suitable for construction of permanent magnet?
    a) Soft iron
    b) Copper
    c) Steel
    d) Nickel
       Answer: B

57. Uranus has hours in a day?
    a) 24
    b) 22
    c) 20
    d) 18
       Answer: D

58. Neptune completes one rotation around earth in?
    a) 687 days
    b) 225 days
    c) 84 years
    d) 165 years
       Answer: D

59. Mars has?
    a) 22 hours
    b) 23 hours
    c) 24 hours
    d) 25 hours
       Answer: D

60. Balls of ice, dust, rocks forms?
    a) Asteroids
    b) Meteorites
    c) Comets
    d) Meteors
       Answer: C

1. Chewing & grinding food is done by?
   a) Incisors
   b) Premolars
   c) Molars
   d) Canines
      Answer: B

2. Polio is an
   a) Contagious disease
   b) Non-Contagious disease
   c) Penta disease
   d) All of these
      Answer: A

3. Diesel is a
   a) Renewable Source
   b) Non- Renewable Source
   c) Semi-Renewable source
   d) Both a & c
      Answer: C

4. Mineral Coal is
   a) Renewable Source
   b) Non- Renewable Source
   c) Semi-Renewable source
   d) Both a & c
      Answer: B

5. Carbon dioxide is produced when we burn?
   a) Coal
   b) Fossil Fuel
   c) Both a & b
   d) None of these
      Answer: C

6. Computer components are the example of
   a) Biodegradable sources
   b) Non-biodegradable sources
   c) Semi-biodegradable sources
   d) None of these
      Answer: B

7. Cucumber is an example of?
   a) Biodegradable sources
   b) Non-biodegradable sources
   c) Semi-biodegradable sources
   d) None of these
      Answer: A

8. Mutton is an example of
   a) Biodegradable sources
   b) Non-biodegradable sources
   c) Semi-biodegradable sources
   d) None of these
   Answer: A

9. PEPSI bottle is an example of
   a) Biodegradable sources
   b) Non-biodegradable sources
   c) Semi-biodegradable sources
   d) None of these
   Answer: B

10. Eggshell can be removed through
    a) Vinegar
    b) Sulphuric Acid
    c) Citrus Acid
    d) None of these
    Answer: A

11. Muscular tissue can be found in?
    a) Heart
    b) Bone
    c) Fats
    d) Brain
    Answer: A

12. Connective tissue can be found in?
    a) Heart
    b) Bone
    c) Fats
    d) Brain
    Answer: B

13. What is common in fats & proteins?
    a) Carbon
    b) Nitrogen
    c) Neon
    d) Sulphur
    Answer:  A

14. Fuel of the body is?
    a) Vitamin
    b) Carbohydrates
    c) Fats
    d) Fiber
    Answer: B

15. Vitamin C deficiency can lead to?
    a) Berry Berry
    b) Scurvy
    c) Night Blindness
    d) Anaemia
       Answer: B

16. Large molecules are broken down with?
    a) Teeth
    b) Tongue
    c) Muscles
    d) Enzymes
       Answer: D

17. The undigested food is removed through
    a) Ingestion
    b) Digestion
    c) Absorption
    d) Egestion
       Answer: D

18. Stomach produces enzymes & acid for digestion of?
    a) Carbohydrates
    b) Proteins
    c) Fats
    d) Oil
       Answer: B

19. The food we eat is converted by stomach into?
    a) Soupy gel
    b) Soupy mixture
    c) Solid balls
    d) Watery solution
       Answer: B

20. Energy due to movement is called?
    a) KE
    b) PE
    c) IE
    d) GE
       Answer: A

21. Bow stretched is an example of
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    c) Comets
    d) Meteors
       Answer: C

29. Example of herbaceous stems is?
    a) Daisies
    b) Leaves
    c) Flowers
    d) Fruits
       Answer: A

30. Xylem is?
    a) Living tissue
    b) Dead tissue
    c) Vascular tissue
    d) None of these
       Answer: B

31. Xylem forms?
    a) Leaf
    b) Wood
    c) Structure
    d) Roots
       Answer: B

32. The protective layer around plant parts is?
    a) Cortex
    b) Mesophyll
    c) Vascular Bundle
    d) Epidermis
       Answer: D

33. Enzymes are not involved in?
    a) Respiration
    b) Breathing
    c) Both a & c
    d) None of these
       Answer: B

34. Platelets are?
    a) Regular shaped
    b) Irregular shaped
    c) Round shaped
    d) None of these
       Answer: B

35. Atrium is present in?
    a) Liver
    b) Stomach
    c) Lungs
    d) Heart
       Answer: D

36. The exchange of gases between blood & air takes place at?
    a) Trachea
    b) Bronchi
    c) Bronchioles
    d) Alveoli
       Answer: D

37. Plasma is the component of?
    a) Urine
    b) Blood
    c) Kidney
    d) Heart
       Answer: B

38. B & T cells form?
    a) Vascular Bundle
    b) Memory cells
    c) Heart cells
    d) Alveolus
       Answer: B

39. Nausea is the symptom of?
    a) Dengue
    b) Covid-19
    c) Malaria
    d) Fever
       Answer: A

40. Nausea is the symptom of?
    a) Typhoid
    b) Hepatitis-B
    c) Hepatitis-C
    d) Fever
       Answer: B

41. Benish is allergic to dust and pollen. Her health issue is?
    a) Viral attack
    b) Pathogen disease
    c) Infectious disease
    d) None of these
       Answer: C

42. If rabies infected dog bites a person, the only way to save him is by providing?
    a) Innate immunity
    b) Adaptive immunity
    c) Passive immunity
    d) Learned immunity
       Answer: C

43. Maximum number of additional defence layers is required for?
    a) Medical staff
    b) Teachers
    c) Students
    d) Lawyers
       Answer: A

44. Chemical change is?
    a) Freezing of water
    b) Boiling of water
    c) Photosynthesis
    d) Filling up balloon with air
       Answer: C

45. Which change can be reversed?
    a) Chemical change
    b) Physical change
    c) Both a & b
    d) None of these
       Answer: B

46. Rusting can be prevented by
    a) Scratching
    b) Painting
    c) Washing
    d) Cleaning
       Answer: B

47. Planetary model of atom was discovered in?
    a) 1904
    b) 1911
    c) 1913
    d) 1926
       Answer: C

48. Number of electrons in $2^{nd}$ shell is?
    a) 2
    b) 4
    c) 6
    d) 8
       Answer: D

49. The mass number of an atom is represented by
    a) A
    b) B
    c) Z
    d) M
       Answer: A

50. Smoke is an example of solution?
    a) Liquid in gas
    b) Solid in gas
    c) Gas in gas
    d) Liquid in liquid
       Answer: B

51. Humid air is an example of solution?
    a) Liquid in gas
    b) Solid in gas
    c) Gas in gas
    d) Liquid in liquid
       Answer: A

52. Which is the most effective factor for increasing solubility in solution?
    a) Grinding
    b) Stirring
    c) Heating
    d) Pressuring
       Answer: C

53. If a body moves for 30 seconds with speed 30m/s, then distance is
    a) 150m
    b) 300m
    c) 600m
    d) 900m
       Answer: D

54. If a body covers equal distance in equal intervals of time, then speed is?
    a) Increasing
    b) Decreasing
    c) Uniform
    d) Zero
       Answer: C

55. If a wave has three crests & three troughs, then frequency is?
    a) 1 Hz
    b) 2 Hz
    c) 3 Hz
    d) 4 Hz
       Answer: C

56. Which of the following animal has the lowest pitch of sound?
    a) Sparrow
    b) Dog
    c) Cat
    d) Mosquito
       Answer: D

57. Product of frequency & time period of a wave is?
    a) 1
    b) 1/T
    c) 1/F
    d) 0
       Answer: A
58. If your classroom temperature is 27 Celsius, then in kelvin scale?
    a) 27K
    b) 373K
    c) 300K
    d) 246K
       Answer: C
59. Which of the following is the worst conductor?
    a) Metal
    b) Wood
    c) Wool
    d) Air
       Answer: D
60. If value of g on a planet is 25N/Kg, then weight of 2Kg body is?
    a) 2N
    b) 25N
    c) 50N
    d) 75N
       Answer: C

1. The global temperature has increased by 1 degree Celsius in last?
   a) 10 years
   b) 100 years
   c) 1000 years
   d) 50 years
      Answer: B

2. One of the causes of global warming?
   a) Deforestation
   b) Renewable sources
   c) Biodegradable sources
   d) None of these
      Answer: A

3. Urbanization is the cause of?
   a) Greenhouse effect
   b) Global warming
   c) Carbon dioxide
   d) None of these
      Answer: B

4. Plants compete for?
   a) Minerals
   b) Animals
   c) Lions
   d) Zebras
      Answer: A

5. In between frog & bear, frog is?
   a) Predator
   b) Prey
   c) Both a & b
   d) None of these
      Answer: B

6. Epiphytes follow the rules of?
   a) Parasitism
   b) Mutualism
   c) Commensalism
   d) None of these
      Answer: C

7. In between mouse & snake, snake is?
   a) Primary Consumer
   b) Secondary Consumer
   c) Tertiary Consumer
   d) None of these
      Answer: B

8. Aquatic life on earth is?
   a) 70%
   b) 80%
   c) 90%
   d) 60%
   Answer: C

9. Global warming can be reduced by?
   a) Hunting
   b) Migration
   c) Deforestation
   d) Reforestation
   Answer: D

10. Reforestation stops?
    a) Soil erosion
    b) Water erosion
    c) Plants erosion
    d) None of these
    Answer: A

11. Use of plastics can reduce?
    a) Deforestation
    b) Soil erosion
    c) Carbon dioxide
    d) Pollution
    Answer: D

12. Pangolin is an?
    a) Extinct specie
    b) Endangered specie
    c) Both a & b
    d) None of these
    Answer: B

13. Rhizobium is a group of bacteria which live in the roots of some plants. They fix nitrogen for plant and get food in return. This relationship is?
    a) Parasitism
    b) Mutualism
    c) Commensalism
    d) Competition
    Answer: B

14. Carnivorous plants feed on insects because these plants grow on marshy places deficient in?
    a) Carbon
    b) Nitrogen
    c) Calcium
    d) Sulphur

Answer: B

15. Electrical signals in neurons are called?
    a) Dendrites
    b) Nerve impulses
    c) Axon
    d) None of these
       Answer: B

16. Grey matter in spinal cord is?
    a) Honey bee shaped
    b) U-shaped
    c) Butterfly shaped
    d) Z-Shaped
       Answer: C

17. In nervous system, Pons acts as?
    a) Cerebellum
    b) Bridge
    c) Spinal cord
    d) Medulla oblongata
       Answer: B

18. Withdrawal of hand on touching hot object is an example of
    a) Reflex action
    b) Reflex arc
    c) Voluntary action
    d) None of these
       Answer: A

19. Brain stem includes all EXCEPT
    a) Medulla oblongata
    b) Midbrain
    c) Cerebellum
    d) Pons
       Answer: C

20. Which is the largest part of brain?
    a) Brain stem
    b) Hypothalamus
    c) Thalamus
    d) Cerebrum
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    a) Spinal cord
    b) Pons
    c) Cerebellum
    d) Cerebrum

Answer: B

22. In sexual reproduction, organisms' genetic variations are caused by?
    a) Diet
    b) Mutations
    c) Cerebrum
    d) None of these
    Answer: B

23. Cactus is an example of?
    a) Environmental adaptation
    b) Structural adaptation
    c) Behavioural adaptation
    d) None of these
    Answer: B

24. Seasonal migration is an example of?
    a) Environmental adaptation
    b) Structural adaptation
    c) Behavioural adaptation
    d) None of these
    Answer: C

25. Genes control?
    a) Skin colour
    b) Height
    c) Traits
    d) Blood group
    Answer: C

26. Genes are inherited to next generation by?
    a) Chromosomes
    b) Rhizombous
    c) Nucleus
    d) DNA
    Answer: A

27. DNA contains?
    a) Deoxyribose
    b) Trioxyribose
    c) Pentaoxyribose
    d) None of these
    Answer: A

28. Thymine is an?
    a) Carbonous base
    b) Nitrogenous base
    c) Hydrogenous base
    d) None of these

Answer: B

29. Guanine is a?
    a) Carbonous base
    b) Nitrogenous base
    c) Hydrogenous base
    d) Both a & b
    Answer: B

30. How many types of nucleotides?
    a) 2
    b) 3
    c) 4
    d) 5
    Answer: C

31. Cytokinesis takes place during the division of?
    a) Nucleus
    b) Chromosomes
    c) Chromatid
    d) Both a & b
    Answer: A

32. Centromere splits in?
    a) Telophase
    b) Prophase
    c) Anaphase
    d) Cytokinesis
    Answer: C

33. Nuclear membrane is formed around the chromosomes in?
    a) Metaphase-I
    b) Anaphase-I
    c) Telophase-I
    d) Telophase-II
    Answer: C

34. Two daughter cells are formed in?
    a) Meiosis-I
    b) Meiosis-II
    c) Meiosis-III
    d) None of these
    Answer: B

35. For each biological trait, there is a?
    a) Nucleotide
    b) Chromosome
    c) Gene
    d) Cell

Answer: C

36. A gamete of guava plant has nine chromosomes. What will be the number of chromosomes in each cell of adult plant if it is diploid organism?
    a) 9
    b) 14
    c) 16
    d) 18
    Answer: D

37. The process of increasing the density of vitamins & minerals in a crop is called?
    a) Biotechnology
    b) Biofortification
    c) Biosciences
    d) None of these
    Answer: B

38. NIAB is an institute working on
    a) Genetic analysis
    b) Food crops
    c) Animal breeding
    d) None of these
    Answer: B

39. Rice is an
    a) Biotech food
    b) Staple food
    c) Hybrid food
    d) Both a & c
    Answer: B

40. GMO cheese is produced by using?
    a) Chymosin
    b) Chromatin
    c) Pepsin
    d) Lactic Acid
    Answer: A

41. Baking process uses enzymes from?
    a) Wheat
    b) Rice
    c) Corn
    d) Yeast
    Answer: D

42. In periodic table, Group-VIIA is called
    a) Alkali metals
    b) Halogens
    c) Noble gases

d) None of these

Answer: B

43. If you are holding a substance, that is non-ductile, can you identify the substance?
   a) Metal
   b) Non-metal
   c) Metalloid
   d) Liquid

   Answer: B

44. How many electrons are present in the outermost shell in Group IIIA elements?
   a) 1
   b) 2
   c) 3
   d) 4

   Answer: C

45. Period number of Neon is?
   a) 1
   b) 2
   c) 3
   d) 4

   Answer: B

46. A chemical change can be identified by?
   a) Odour change
   b) Emission of a gas
   c) Heat change
   d) All of these

   Answer: D

47. Can we alter the chemical formula of substances involved in a chemical reaction?
   a) Yes
   b) No
   c) May be
   d) None of these

   Answer: B

48. NaF is used as ingredient in?
   a) Common salt
   b) Toothpaste
   c) Cleaning agents
   d) Soaps

   Answer: B

49. Photosynthesis in green plants is?
   a) Synthesis
   b) Decomposition
   c) Exothermic

d) Endothermic

Answer: D

50. Frying an egg is a?
    a) Physical change
    b) Chemical change
    c) Shape change
    d) Covalent bonding

Answer: B

51. HCOOH is the chemical formula of?
    a) Acetic acid
    b) Carbonic acid
    c) Citric acid
    d) Formic acid

Answer: D

52. Dolomite is an example of?
    a) Acid salts
    b) Basic Salts
    c) Double salts
    d) Triple salts

Answer: C

53. Methyl orange colour in Alkali is?
    a) Blue
    b) Red
    c) Yellow
    d) Pink

Answer: C

54. When a wasp sting you, it injects in skin an?
    a) Acid
    b) Alkali
    c) HCOOH
    d) None of these

Answer: B

55. The unit of buoyant force is?
    a) Pascal
    b) Newton
    c) Buoyancy
    d) Meter per cubic second

Answer: B

56. With depth, pressure in a liquid
    a) Decreases
    b) Increases
    c) Zero

d) Maximum

Answer: B

57. If a submerged object displaces an amount of liquid with a weight less than its own, when the object is released, it will?

a) Sink
b) Float
c) Both a & b
d) None of these

Answer: A

58. To get an enlarge & upright image, which mirror we should use?

a) Convex mirror
b) Concave mirror
c) Plane mirror
d) Rough mirror

Answer: B

59. Stereo speakers works on the principle of

a) Electromagnets
b) Electro circuits
c) Electric bell
d) None of these

Answer: A

60. Which substance is used to make milk plastic?

a) Baking soda
b) Glyceride
c) Vinegar
d) Borax

Answer: C

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Answer: B

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    b) Chromatin

    c) Pepsin

    d) Lactic Acid

    Answer: A

30. Baking process uses enzymes from?

    a) Wheat

    b) Rice

    c) Corn

    d) Yeast

    Answer: D

31. Night blindness is caused due to the deficiencies of_____.

a) Vitamin A

b) Vitamin B

c) Vitamin C

d) Vitamin E

    Answer: A

32. Which of the following diseases is an example of non-communicable diseases?

a) Cancer

b) Diabetes

c) Hypertension

d) All of the above

    Answer: D

33. Excessive bleeding during an injury is a deficiency of_____.

a) Vitamin A

b) Vitamin C

c) Vitamin K

d) Vitamin F

    Answer: C

34. Cystic Fibrosis and Haemophilia are examples of _____.

a) Hereditary diseases

b) Degenerative diseases

c) Deficiency diseases

d) None of the above

    Answer: A

35. Which of the following diseases is caused by protein deficiency?

a) Anaemia

b) Kwashiorkor

c) Hypothyroidism

d) All of the above

Answer: B

36. AIDS, common cold, dengue fever and influenza are examples of _____.

a) Deficiency Disease

b) Infectious diseases

c) Physiological Diseases

d) Non-infectious diseases

Answer: D

37. Which of the following vitamins helps in blood clotting?

a) Vitamin A

b) Vitamin C

c) Vitamin K

d) Vitamin F

Answer: C

38. Where does the ovum receive the sperm?

a) Animal pole

b) Vegetal pole

c) Zona pellucida

d) None of the above

Answer: A

39. _____is an organelle that helps the sperm to penetrate the ovum.

a) Acrosome

b) Zona pellucida

c) Megalis

d) Megalis

Answer: A

40. Umbilical cord contains _____

a) Pluripotent stem cells

b) Cord blood stem cells

c) Blood stem cells

d) None of the above

Answer: B

41. Which one of the following is employed in treatment of cancer

a) Antibiotics and cancer

b) Radiotherapy and chemotherapy
c) Chemotherapy and antibiotics
d) All of the above
Answer: B

42. Which one of the following is a correct sequence in biological methods

a) Observation-hypothesis-deduction-testing of deduction
b) Observation-hypothesis-law-theory
c) Hypothesis-observation-deduction-testing of deduction
d) law-theory-observation-deduction
Answer: A

43. The most recent era is

a) Paleozoic
b) Cenozoic
c) Protozoic
d) Protozoic
Answer: D

44. Which of the following are being used as bio pesticides An aphid that attacks walnut tree is being controlled biologically by

a) House fly
b) Honey bee
c) Mosquito
d) Wasp
Answer: B

45. In deductive reasoning we move from

a) General to specific
b) Specific to general
c) General to general
d) Specific to specific
Answer: A

46.  The number and variety of species in a place in called.

a)  Community
b)  Population
c)  Biodiversity
d)  Diversity
     Answer: C

47. The first ever clone was prepared in 1997 in

a)  England
b)  Scotland
c)  Ireland
d)  Mary land
     Answer: B

48. AIDS is caused by

a)  H-virus
b)  TMV
c)  HIV
d)  D- virus
     Answer: C

49. The bio element which accounts 18% of total mass in human body is

a)  Oxygen
b)  Hydrogen
c)  Carbon
d)  Nitrogen
     Answer: C

50.  A group of similar cells that perform similar function is

a)  Tissues

b) Organ
c) Organelles
d) System
Answer: A

51. Which of the following is not an attribute of population

a) Population density
b) Gene frequency
c) Gene structure
d) Gene flow
Answer: C

52. The lowest percentage of bio elements in man among the following is of

a) Chlorine
b) Sulphur
c) Manganese
d) Iron
Answer: C

53. In human gene therapy, the normal genes are inserted into the host through

a) Deductive
b) Inductive
c) Scientific
d) Theocratical
Answer: A

54. The study of microorganisms is called

a) Parasitology
b) Social Biology
c) Microbiology
d) Molecular Biology
Answer: C

55. Lock and key model was proposed by:
    a) Emil Fisher
    b) Koshland
    c) Rudolph Virchow
    d) Lorenz Oken
       Answer: A

56. Optimum pH for pancreatic lipase is:Karachi
    a) 8.00
    b) 7.00
    c) 9.00
    d) 6.00
       Answer: C

57. If the non-protein part of Enzyme is covalently bonded then it is called:
    a) Co-factor
    b) Activator
    c) Co-enzyme
    d) Prosthetic group
       Answer: D

58. Induce fit model was prepared by:
    a) Koshland
    b) Emil Fischer
    c) Sanger
    d) Mischer
       Answer: A

59. The product of succinic acid by the action of the enzyme is:
    a) Fumaric acid
    b) Malonic acid
    c) Citric acid
    d) Pyruvic acid
       Answer: A

60. If the non-protien part is loosely attached to the protein part is known as:
    a) Coenzyme
    b) Prosthetic group
    c) Apoenzyme
    d) Cofactor
       Answer: A

1. Which of the following list contains only elements?
   a) Air, water, oxygen
   b) Air, water, fire
   c) Hydrogen, oxygen, brass
   d) Calcium, sulphur, carbon
      Answer: D

2. What is the formula mass of caustic soda?
   a) 159.5
   b) 185.5
   c) 249.5
   d) 149.5
      Answer: C

3. How many moles of molecules are there in 16g oxygen?
   a) 1
   b) 0.5
   c) 0.1
   d) 6
      Answer: B

4. What is the mass of 4 moles of hydrogen gas in grams?
   a) 8.064
   b) 4.032
   c) 1
   d) 1.008
      Answer: A

5. What is the mass of carbon present in 44g of carbon dioxide?
   a) 12g
   b) 6g
   c) 24g
   d) 44g
      Answer: A

6. Which term is same for one mole of oxygen and one mole of water?
   a) Volume
   b) Mass
   c) Atoms
   d) Molecules
      Answer: C

7. If one mole of carbon contains x atoms, what is the number of atoms contained in 12g of Mg?
   a) X
   b) 0.5x
   c) 2x
   d) 1.5x
      Answer: B

8. Chlorine has two isotopes, both of which have?
    a) Same mass number
    b) Same no. of neutrons
    c) Different no. of protons
    d) Same no. of electrons
        Answer: D

9. Which isotope is commonly used to irradiate cancer cells?
    a) I-123
    b) C-14
    c) Co-60
    d) I-131
        Answer: C

10. M shell has subshells?
    a) 1s,2s
    b) 2s,2p
    c) 3s,3p,3d
    d) 1s,2s,3s
        Answer: C

11. A subshell that accommodates 6 electrons is?
    a) S
    b) P
    c) D
    d) F
        Answer: B

12. Which isotope is used in nuclear reactors?
    a) U-234
    b) U-238
    c) U-235
    d) All of these
        Answer: C

13. Number of periods in periodic table are?
    a) 8
    b) 7
    c) 14
    d) 17
        Answer: B

14. Which of the following groups contain alkaline earth metals?
    a) 1A
    b) IIA
    c) VIIA
    d) VIIIA
        Answer: B

15. Which of the following elements belong to VIIIA?
    a) Na
    b) Mg
    c) Br
    d) Xe
        Answer: D

16. Number of groups in periodic table are?
    a) 12
    b) 14
    c) 16
    d) 18
        Answer: A

17. Main group elements are arranged in_____ groups?
    a) 6
    b) 7
    c) 8
    d) 9
        Answer: C

18. Which of the following you expect to have greater shielding effect?
    a) Li
    b) Na
    c) K
    d) Rb
        Answer: D

19. Silicon has_____ electrons in the valance shell.
    a) 2
    b) 4
    c) 6
    d) 8
        Answer: B

20. A liquid boils when its vapour pressure becomes equal to?
    a) 760cmHg
    b) 1Pa
    c) 101.325KPa
    d) 0.1atm
        Answer: C

21. Acetone melts at -94 Celsius and boils at 56 Celsius. Guess the physical state of acetone at 25 Celsius and 1 atm?
    a) Gas
    b) Liquid
    c) Solid
    d) Plasma

Answer: B

22. How many moles of sodium atoms are present in 2.3g Na?
    a) 1
    b) 1.5
    c) 0.1
    d) 0.15
       Answer: C

23. Which of the following solution is more dilute?
    a) 1M
    b) 2M
    c) 0.1M
    d) 0.009M
       Answer: D

24. If one mole of Na contains x atoms of sodium, what is the number of moles contained in 46g of sodium?
    a) X
    b) 2
    c) 2x
    d) 1.5x
       Answer: B

25. Galvanizing is?
    a) Coating with Sn
    b) Coating with Zn
    c) Coating with Cr
    d) Coating with Cu
       Answer: B

26. Which of the following elements are most metallic?
    a) Al
    b) Na
    c) Mg
    d) Li
       Answer: B

27. Which of the following metal is not a noble metal?
    a) Au
    b) Cu
    c) Hg
    d) Ag
       Answer: C

28. Which of the following elements is the least non-metallic?
    a) Si
    b) S
    c) P

    d) Cl

      Answer: A

29. Chlorine cannot oxidize _____ ion?

    a) Iodide

    b) Flouride

    c) Bromide

    d) Astatine

      Answer: B

30. Na is more reactive than LI, but less reactive than?

    a) Mg

    b) Al

    c) Rb

    d) All of these

      Answer: C

31. Which of the following is the strongest acid?

    a) HI

    b) HCL

    c) HF

    d) HBr

      Answer: A

32. Pitch is produced by

    a) Coal

    b) Coal Tar

    c) Coal Gas

    d) Petroleum

      Answer: A

33. In which of the following compounds, oxygen is attached to two alkyl carbon atoms?

    a) Alcohol

    b) Phenol

    c) Ether

    d) Ester

      Answer: C

34. Formic Acid contains functional group?

    a) –OH

    b) –CO-

    c) –COOH

    d) –CHO

      Answer: C

35. Which process produces an alkane?

    a) Combustion

    b) Hydration

    c) Dehydration

       d) Hydrogenation

         Answer: D

36. By dehydration we mean , the removal of?

       a) Hydrogen

       b) Water

       c) Halogen

       d) Alkane

         Answer: B

37. Which molecule contains a carbon-carbon double bond?

       a) Ethane

       b) Ethyne

       c) Ethane

       d) Ethyl

         Answer: C

38. Which is not a dextrose sugar?

       a) Glucose

       b) Mannose

       c) Galactose

       d) Fructose

         Answer: D

39. Which is not a source of starch?

       a) Wheat

       b) Rice

       c) Cotton

       d) Potato

         Answer: C

40. Which is not a protein?

       a) Gelatin

       b) Antibodies

       c) Enzymes

       d) Cholesterol

         Answer: D

41. Which groups of periodic table are included in p block elements?

a) 6-12

b) 13-18

c) 1-18

d) 1-5

Answer: B

42. The trend of ionization energy in a group from top to bottom is:

a) Decrease

b) Increase

c) Same

d) None of these

Answer: A

43. Long form of periodic table was constructed on the basis of:

a) Mendeleev postulate
b) Atomic number
c) Atomic mass
d) None of these

Answer: B

44. Covalent bond between two different atoms is:

a) Polar
b) Non-polar
c) Ionic
d) None of these

Answer: A

45. How much energy is required to break a chemical bond?

a) 428KJ
b) 429KJ
c) 430KJ
d) 431KJ

Answer: A

46. Brass is the example of which solution in the following :

a) Liquid in solid
b) Solid in solid
c) Gas in gas
d) Liquid in liquid

Answer: B

47. Which of the following is soluble in corn tetrachloride?

a) Greese
b) Alcohol
c) Sugar
d) Salt

Answer: A

48. Which one of the following will show negligible effect of temperature on its solubility?

a) KCl
b) NaCl
c) PCL
d) AlBr

Answer: B

49. Tyre puncture is an example of.

a) Effusion process
b) Diffusion process
c) Evaporation process

d) Condensation process

Answer: A

50. The constant factor in boyle's law is :

a) Volume
b) Pressure
c) Mole
d) Temperature

Answer: D

51. A man can survive without food for at least

a) 1 Week
b) 1 Month
c) 2 Weeks
d) ½ Month

Answer: B

52. Which one of the following is the main culprit in the thinning of Ozone layer in the earth's stratosphere?

a) CO
b) CFCs
c) CFOs
d) HCO

Answer: B

53. Gargling with a solution of table salt is known to provide relief for a sore throat because ____?

a) It kills bacteria
b) It works as analgesic
c) It dehydrates water from inflammatory tissues by Osmosis
d) None of the above reasons

Answer: C

54. What amount of fats give energy of 93 K Calories?

a) 0.001Kg
b) 0.002Kg
c) 0.003Kg
d) 0.007Kg

Answer: A

55. When a person enters a dark room from bright light he is not able to see clearly for a little while because the Parasitology

a) Iris is unable to dilate the pupil immediately
b) Iris is able to dilate the pupil immediately

c) Retina is unable to dilate the pupil immediately
d) Retina is unable to dilate the pupil immediately
Answer: A

56. An iceberg is floating in sea. How much of its mass will remain above the surface of water?

a) $1/9^{th}$

b) $1/10^{th}$

c) $1/12^{th}$

d) $1/16^{th}$

Answer: B

57. Detergents dissolved in water help in cleaning clothes by
a) Reducing the vaporization rate of water
b) Reducing the surface tension of water
c) Reducing the density of water
d) Reducing the weight of water
Answer: B

58. The outermost layer of earth atmosphere is?
a) The mesosphere
b) The stratosphere
c) The troposphere
d) The thermosphere
Answer: D

59. Stratosphere extends up to?
a) 12Km
b) 15Km
c) 50Km
d) 80Km
Answer: C

60. Percentage of sodium chloride in sea water is?
a) 0.02
b) 3.4
c) 97
d) 2
Answer: B

1. Who invented logarithm?
   a) Blaise pascal
   b) Charles babbage
   c) John napier
   d) Herman Hollerith
      Answer: C

2. Which generation of computers used transistor?
   a) $1^{st}$
   b) $2^{nd}$
   c) $3^{rd}$
   d) $4^{th}$
      Answer: B

3. In which generation of computer microprocessor was introduced?
   a) $1^{st}$
   b) $2^{nd}$
   c) $3^{rd}$
   d) $4^{th}$
      Answer: D

4. Which of the following computer supports thousands of users at the same time?
   a) Microcomputer
   b) Minicomputer
   c) Mainframes
   d) Laptops
      Answer: D

5. Which of the following is the fastest memory?
   a) USB flash drive
   b) RAM
   c) ROM
   d) Cache
      Answer: D

6. Which of the following is a volatile memory?
   a) RAM
   b) ROM
   c) USB
   d) Hard disk
      Answer: A

7. When were IC chips developed?
   a) Early 1960s
   b) Early 1970s
   c) 1980s
   d) 1990s
      Answer: A

8. Which interface is based on textual input?
   a) GUI
   b) CLI
   c) PLI
   d) ALI
   Answer: B

9. Which was introduced in 1969?
   a) Macintosh
   b) Linux
   c) Unix
   d) Windows
   Answer: C

10. Which of the following interface uses window, icon, and menu to interact with computer?
    a) GUI
    b) CLI
    c) MDI
    d) DOS
    Answer: A

11. Which of the following is open source operating system?
    a) UNIX
    b) Linux
    c) DOS
    d) NNA
    Answer: B

12. Which of the following user interface is the easiest one to learn & use?
    a) CLI
    b) GUI
    c) DOS
    d) ASS
    Answer: B

13. Which of the following software is used for creating professional documents?
    a) Spreadsheet
    b) Word
    c) Typing Master
    d) None of these
    Answer: B

14. Which of the following tab of word Ribbon contains Clipboard group?
    a) Page layout
    b) Insert
    c) File
    d) Home
    Answer: D

15. By default how many tabs are there in Word Ribbon?
    a) 7
    b) 8
    c) 9
    d) 6
       Answer: C

16. What is used for creating decorative effects in Word?
    a) Paragraph formatting
    b) Text formatting
    c) Page formatting
    d) Wordart
       Answer: D

17. Which of the following tab contains the commands for creating charts in Excel?
    a) Home
    b) Formulas
    c) Insert
    d) Data
       Answer: C

18. Which of the following shortcut keys are used for pasting selected text?
    a) Ctrl+C
    b) Ctrl+X
    c) Ctrl+V
    d) Ctrl+P
       Answer: C

19. Which of the following command is used to apply formatting to one or more cells based on the value of the cell?
    a) Data validation
    b) Data filtering
    c) Conditional formatting
    d) Data manipulation
       Answer: C

20. Which of the following command in Excel restricts user from entering wrong data in cells of a worksheet?
    a) Data validation
    b) Data filtering
    c) Conditional formatting
    d) Data manipulation
       Answer: A

21. In which type of data transmission start/stop bits are used?
    a) Synchronous Transmission
    b) Asynchronous transmission
    c) Satellite transmission

    d) Microwave transmission

    Answer: B

22. In which of the following transmission, the time interval between the characters is always the same?

    a) Synchronous Transmission

    b) Asynchronous transmission

    c) Satellite transmission

    d) Microwave transmission

    Answer: A

23. Which of the following transmission media used light waves for transmitting information?

    a) Coaxial Cable

    b) Twisted pair cable

    c) Telephone cable

    d) Fibre optic cable

    Answer: D

24. Which of the following is the used for short distance communication?

    a) Radio signals

    b) Microwave

    c) Infra-red

    d) Satellite communication

    Answer: C

25. In which of the following impairment, the strength of signal falls off with distance?

    a) Distortion

    b) Attenuation

    c) Cross talk

    d) Noise

    Answer: B

26. Which of the following impairment refers to undesired signals that enter the path of the transmitted signal due to electromagnetic radiation?

    a) Distortion

    b) Attenuation

    c) Cross talk

    d) Noise

    Answer: A

27. Which of the following device is used for connecting computers together in wireless local area network?

    a) Dial-up Network

    b) Router

    c) Switch

    d) Access point

    Answer: C

28. Which of the following device is used for connecting computers together in wired local area network?
    a) Dial-up Network
    b) Router
    c) Switch
    d) Access point
       Answer: B

29. Which of the following device forwards information from one network to another selecting the best pathway available?
    a) Dial-up Network
    b) Router
    c) Switch
    d) Access point
       Answer: B

30. What represents the overall data transmission capacity of a computer network?
    a) Data rate
    b) Bandwidth
    c) Signal strength
    d) Baud rate
       Answer: C

31. Which of the following computer shares resources on a network for others to use?
    a) Desktop Computer
    b) Client
    c) Server
    d) Microcomputer
       Answer: C

32. Which of the following topology is most expensive to implement?
    a) Star
    b) Bus
    c) Ring
    d) Mesh
       Answer: D

33. I which of the following network topology, switch is required?
    a) Star
    b) Bus
    c) Ring
    d) Mesh
       Answer: A

34. Which of the following network is used to provide cable TV & internet services?
    a) LAN
    b) WAN
    c) MAN

d) PPN

Answer: C

35. Which of the following network topology uses a device called terminator?
   a) Ring
   b) Mesh
   c) Bus
   d) Star

   Answer: C

36. What is a person who illegally breaks into others computer systems called?
   a) Computer Engineer
   b) System programmer
   c) Hacker
   d) Cracker

   Answer: C

37. What is a person who uses special tools for breaking into computer systems called?
   a) Computer Engineer
   b) System programmer
   c) Hacker
   d) Cracker

   Answer: D

38. Which malware spreads automatically in computer networks and replicates itself?
   a) Virus
   b) Worm
   c) Adware
   d) Spyware

   Answer: B

39. Which of the following malware displays advertisements on the screen?
   a) Virus
   b) Worm
   c) Adware
   d) Spyware

   Answer: C

40. Which of the following authentication method is used for opening security gates?
   a) Username
   b) PIN
   c) Access Card
   d) Biometrics

   Answer: C

41. Which of the following authentication method is reliable?
   a) Username
   b) PIN
   c) Access Card

    d) Biometrics

    Answer: D

42. Which of the following authentication method is based on features of individuals such as face, fingerprint and voice?

    a) Username

    b) PIN

    c) Access Card

    d) Biometrics

    Answer: D

43. Which of the following authentication method is used to draw cash from ATM?

    a) Username

    b) PIN

    c) Access Card

    d) Biometrics

    Answer: B

44. What is making illegal copies of copyright software for use on other computers or sale called?

    a) Information privacy

    b) Intellectual rights

    c) Software piracy

    d) None of above

    Answer: C

45. Which of the following malware gathers information about user activities on computer?

    a) Virus

    b) Worm

    c) Adware

    d) Spyware

    Answer: D

46. I which of the following network topology, switch is required?

    a) Star

    b) Bus

    c) Ring

    d) Mesh

    Answer: A

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    c) MAN

    d) PPN

    Answer: C

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c) Bus

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d) Cracker

Answer: C

50. What is a person who uses special tools for breaking into computer systems called?

a) Computer Engineer

b) System programmer

c) Hacker

d) Cracker

Answer: D

51. Which of these parts would interpret a program's instructions to initiate the control operations?

a) Logic unit

b) Control unit

c) Storage unit

d) Input

Answer: D

52. What access method do we use to obtain any record out of a cassette tape?

a) Random

b) Direct

c) Sequential

d) All of the above

Answer: C

53. What is the CPU's section that interprets, selects, and also sees to a program instructions' execution?

a) Register unit

b) Control unit

c) ALU

d) Memory

Answer: B

54. _____ is a computer that has been designed so that it is as compact as possible.

a) Supercomputer

b) Mini

c) Mainframe

d) Microcomputer

Answer: D

55. Which of these is a general-purpose microcomputer that is single-user and is designed to be operated by just a single person at any given time?

a) M

b) PC

c) KIPS

d) SPC

Answer: B

56. A total of how many bit codes are used for TELEPRINTER machines by Murray code?
a) 25
b) 5
c) 9
d) 4
   Answer: B
57. _____ refers to the datum that would indicate the important state in an input or output content.
a) Sentinel
b) Sequence
c) Sibling
d) SIO
   Answer: A
58. Out of the following, which one is still useful if we want to add numbers?
a) UNIVAC
b) Abacus
c) ENIAC
d) EDSAC
   Answer: B
59. Which of these is a high-level machine-oriented language for the machines that are of the GEC 4080 series?
a) ALGOL
b) Babbage
c) SNOBOL
d) LOGO
   Answer: A
60. Which of these output devices are used for the translation of information from any computer into a pictorial form on the papers?
a) Card punch
b) Touch panel
c) Plotter
d) Mouse
   Answer: C

1. Temperature is?
   a) Scalar quantity
   b) Vector quantity
   c) Symbol
   d) None of these
      Answer: A

2. Mole is a
   a) Scalar unit
   b) Vector unit
   c) Scalar quantity
   d) Vector quantity
      Answer: A

3. Ampere is a
   a) Scalar unit
   b) Vector unit
   c) Scalar quantity
   d) Vector quantity
      Answer: A

4. Meter per second is a
   a) Scalar unit
   b) Vector unit
   c) Scalar quantity
   d) Vector quantity
      Answer: B

5. Joule is a
   a) Scalar unit
   b) Vector unit
   c) Scalar quantity
   d) Vector quantity
      Answer: B

6. Pascal is a
   a) Scalar unit
   b) Vector unit
   c) Scalar quantity
   d) Vector quantity
      Answer: B

7. Least count of digital stopwatch is?
   a) 0.1 s
   b) 0.01 s
   c) 0.001 s
   d) 1 s
      Answer: B

8. Least count of mechanical vernier caliper is
   a) 0.1 cm
   b) 0.01cm
   c) 0.001cm
   d) 0.01mm
      Answer: B

9. Least count of digital screw guage is?
   a) 0.1mm
   b) 0.01mm
   c) 0.001mm
   d) 0.1cm
      Answer: C

10. There are ___ types of values?
   a) 1
   b) 2
   c) 3
   d) 4
      Answer: B

11. In 15.6cm, the exact value is?
   a) 15
   b) 0.6
   c) 7.8
   d) None of these
      Answer: A

12. Number of significant figures in 0.00302 are
   a) 2
   b) 3
   c) 4
   d) 5
      Answer: B

13. A toy car is moving in a circular track, guess the type of motion?
   a) Rotatory motion
   b) Circular motion
   c) Spinning motion
   d) Zig-zag motion
      Answer: B

14. Movement of wheel in a car is?
   a) Rotatory motion
   b) Circular motion
   c) Vibratory motion
   d) None of these
      Answer: A

15. Shanghal's Maglev, the fastest train, travelled a distance of 30Km in 7 minutes and 30 seconds, can you guess the speed in km/h?
    a) 66.7
    b) 54.9
    c) 34.4
    d) 87.6
       Answer: A

16. Cheetah can accelerate its speed from zero to 26.8m/s in just three seconds. Suppose the cheetah has started running towards west, guess the acceleration?
    a) 9.93
    b) 8.93
    c) 7.78
    d) Zero acceleration
       Answer: A

17. Porsche 911 Turbo S (992) can accelerate its speed from 0 to 27.7m/s in just 2.6s. how much distance will the same car travel in the first 5 seconds of its motion?
    a) 133.125m
    b) 166.302m
    c) 99.8m
    d) 106m
       Answer: A

18. A ball is dropped from the top of Burj Khalifa. It took 13 seconds to touch the ground. Guess the height of Burj Khalifa?
    a) 126m
    b) 456m
    c) 826m
    d) 1026m
       Answer: C

19. Kinza throws a tennis ball upward in air with a speed of 25m/s to reach the building's top. Guess the height of building?
    a) 31.89m
    b) 32m
    c) 45.5m
    d) 90m
       Answer: A

20. Acceleration is a
    a) Scalar quantity
    b) Vector quantity
    c) Scalar unit
    d) Vector unit
       Answer: B

21. If the same engine is installed in a bus and a car that applies a force of 3000N. What acceleration will this engine produce in a car of mass 12000Kg?
    a) 2.5
    b) 0.25
    c) 25
    d) 0.025
    Answer: B

22. The mass of Rumaisa Jamshaid is 50kg. How much will she weight on the surface of earth?
    a) 490 N
    b) 1240N
    c) 1390N
    d) 560N
    Answer: A

23. The mass of Fatima Adeel is 50kg. How much will she weight on the surface of Saturn if g=24.8 meter per second square?
    a) 490 N
    b) 1240N
    c) 1390N
    d) 560N
    Answer: B

24. The direction of Tension is always towards the?
    a) Ground
    b) Support
    c) Force
    d) Flat
    Answer: B

25. An elevator in Centaurus mall is taking a mass of 1500Kg and the counterweight is 1300kg. Guess the acceleration of elevator.
    a) 0.5
    b) 0.6
    c) 0.7
    d) 0.8
    Answer: C

26. An elevator in Centaurus mall is taking a mass of 1500Kg and the counterweight is 1300kg. Guess the tension in the cable.
    a) 14000
    b) 13650
    c) 12450
    d) 11990
    Answer: B

27. Which quantity is measure of inertia of a body?
    a) Mass

b) Force

c) Weight

d) Friction

Answer: A

28. Change in momentum of a body is equal to?

a) FxL

b) Fxt

c) FxI

d) Fxa

Answer: B

29. A block of mass 10Kg is hanging by a string, how much tension is produced in string?

a) 10N

b) 100N

c) 1N

d) 50N

Answer: B

30. A force of 90 N is applied at an angle of 60 degree with x-axis for pulling out a dead tree. Guess the horizontal component of this force?

a) 25N

b) 35N

c) 45N

d) 75N

Answer: C

31. A force of 90 N is applied at an angle of 60 degree with x-axis for pulling out a dead tree. Guess the vertical component of this force?

a) 25N

b) 35N

c) 45N

d) 78N

Answer: D

32. Torque is the product of

a) F & d

b) F & I

c) F & t

d) F & a

Answer: A

33. Conventionally, anticlockwise torque is taken as?

a) Positive

b) Negative

c) Integer

d) None of these

Answer: A

34. Couple always produce
    a) Translational motion
    b) Rotational motion
    c) Circular motion
    d) Vibratory motion
       Answer: B
35. Couple does not result
    a) Translational motion
    b) Rotational motion
    c) Random motion
    d) Vibratory motion
       Answer: A
36. A body in equilibrium must not have?
    a) Speed
    b) Quantity of motion
    c) Velocity
    d) Acceleration
       Answer: D
37. A force of 10N is acting along y-axis, what is its horizontal component?
    a) 10N
    b) 0
    c) 5N
    d) 15N
       Answer: B
38. What will be the value of g in centimeter/second square at 3590 Km where communication satellites orbit around the earth above its surface?
    a) 20.5
    b) 21.4
    c) 22.4
    d) 25.49
       Answer: C
39. A communication satellite orbits the earth at 35900 km above sea level. Guess how fast will the orbiting satellite travel to maintain a circular orbit in km/s?
    a) 3.11
    b) 3.01
    c) 3.07
    d) 3.44
       Answer: C
40. Guess the amount of energy released according to mass energy equivalence when 1g of mass is completely converted to energy.
    a) 70 TJ
    b) 80 TJ

    c) 90 TJ

    d) 100 TJ

    Answer: C

41. Guess the efficiency of petrol engine in-takes 500J of fuel energy and does only 100J of useful work?

    a) 20%

    b) 25%

    c) 30%

    d) 35%

    Answer: B

42. Efficiency of wind generator is?

    a) 50%

    b) 55%

    c) 60%

    d) 65%

    Answer: B

43. Efficiency of hydroelectric power plant is?

    a) 80%

    b) 85%

    c) 90%

    d) 95%

    Answer: D

44. Efficiency of fluorescent light is?

    a) 15%

    b) 20%

    c) 25%

    d) 30%

    Answer: B

45. 1hp=?

    a) 745W

    b) 746W

    c) 749W

    d) 748W

    Answer: B

46. Which of the following is the best conductor?

    a) Aluminum

    b) Wood

    c) Plastic

    d) Copper

    Answer: D

47. The surface tension of a liquid _____ due to increase in temperature :

a) Decrease

b) Increase

c) Constant

d) Half

Answer: A

48. Which of following material have largest young's modulus:

a) Wood

b) Rubber

c) Aluminum

d) Steel

Answer: D

49. What should be the approximate length of a glass tube to construct a water barometer?

a) 50cm

b) 1000cm

c) 1100cm

d) 250cm

Answer: C

50. According to the law of heat exchange the heat absorbed by cold bodies and heat released by hot bodies is?

a) Different

b) Same

c) Large

d) Small

Answer: B

51. The specific heat of iron in joules per kilogram kelvin is :

a) 387

b) 920

c) 470

d) 530

Answer: C

52. The materials which take longer time to cool or heat have specific heat capacity?

a) Less

b) High

c) Equal

d) None of these

Answer: B

53. Land breeze is an example of

a) Conduction

b) Convection Currents

c) Radiation

d) None of these

Answer: B

54. Land breeze blows from:

a)  Land to sea during night
b)  Sea to land during night
c)  Land to sea during day
d)  Sea to land during day
Answer: A

55. The mass of a body on surface of earth is 6.4kg weight of body at the surface of moon is :
a)  64N
b)  10.24N
c)  9.8N
d)  16N
Answer: B

56. Value of 'g' increases with the:
a)  Increase in the mass of body
b)  Increase in altitude
c)  Decrease in altitude
d)  None of these
Answer: A

57. In Einstein's mass-energy equation, c is the.
a)  Speed of sound
b)  Speed of earth
c)  Speed of light
d)  Speed of sun
Answer: C

58. If velocity of a body is halved then its K.E will:
a)  Become $1/4^{th}$
b)  Remain constant
c)  Become 4 times
d)  Become half
Answer: A

59. If the velocity of a body become a three times greater, then kinetic energy will be
a)  3 times
b)  6 times
c)  9 times
d)  12 times
Answer: C

60. Electrical power generated in some wind farms of America has value greater than:
a)  1300MV
b)  18000MV
c)  1300GV
d)  800KV
Answer: A

# NATIONAL MATHEMATICS OLYMPIAD
# PHASE-I
# PAST PAPERS
# GRADE 4-12 & BACHELORS

1. The smallest 6-digit number is?
   a) 111111
   b) 100000
   c) 101010
   d) 111000
      Answer(b)
2. The comparison of numbers always starts from the?
   a) Right
   b) Left
   c) Last
   d) Above
      Answer (b)
3. Ayesha has Rs. 23,456. Her grandmother gave her Rs. 13,131 more. Now she has Rs. ?
   a) 34567
   b) 36564
   c) 34564
   d) 38900
      Answer (a)
4. If the price of one book is Rs. 250, then the price of 22 books will be?
   a) Rs. 5555
   b) Rs. 5550
   c) Rs. 5500
   d) Rs. 5000
      Answer (c )
5. The first common multiple of 5 & 10 is?
   a) 5
   b) 10
   c) 20
   d) 50
      Answer( b)
6. Adeel uses 9.8 ml of oil to bake a cake. How much oil will she use to bake 10 such cakes?
   a) 980ml
   b) 98ml
   c) 9.80ml
   d) None of thses
      Answer(b)
7. To add the decimals, always _____ ones in ones, tenths in tenths & hundredths in hundreths.
   a) Add
   b) Subtract
   c) Multiply
   d) Divide
      Answer (a)

8. Harini buys 140cm of ribbon to wrap a gift box. Convert the length into mm.
   a) 1200mm
   b) 1300mm
   c) 1400mm
   d) 1500mm
      Answer(c )

9. A shopkeeper sells 49Kg 208g of sugar & 65Kg 750g of flour. What is the total quantity of sugar & flour in grams?
   a) 114Kg958g
   b) 116kg900g
   c) 118Kg950kg
   d) None of these
      Answer(a)

10. A point is an _____ location in space.
    a) Exact
    b) Vertical
    c) Horizontal
    d) Curved
       Answer (a)

11. A flag is always parallel to ground?
    a) False
    b) True
    c) Lateral
    d) None of the above
       Answer (a)

12. The flag post is always _____ to the ground.
    a) Perpendicular
    b) Parallel
    c) Curved
    d) Both a & c
       Answer (a)

13. 12min12sec=
    a) 730sec
    b) 732sec
    c) 832sec
    d) 932sec
       Answer (b)

14. In the 12 hours format, 13:50 can be written as:
    a) 1:50am
    b) 3:50am
    c) 1:50pm
    d) 3:50pm

Answer (C )

15. The length of all the radial segments in a circle is?
    a) Same
    b) Different
    c) Opposite
    d) Vertical
       Answer (a)

16. A bus has a capacity of 75 passengers. How many buses would be needed for carrying 1575 passengers?
    a) 20
    b) 21
    c) 22
    d) 23
       Answer (b)

17. Ali has 1867 lego blocks. His sister gives him 4 more boxes of lego blocks. There are 1205 lego blocks in one box. How many lego blocks does Ali have in total?
    a) 6686
    b) 6687
    c) 6688
    d) 6689
       Answer(b)

18. There are 4500 plants in 90 rows. Each row contains an equal number of plants. In one row, there are plants?
    a) 30
    b) 40
    c) 50
    d) 60
       Answer( C)

19. By dividing 3960 by 88, wi will get?
    a) 41
    b) 42
    c) 43
    d) None of these
       Answer (d)

20. Find the next term in the pattern: 6, 18, 42?
    a) 48
    b) 54
    c) 60
    d) 66
       Answer ( b)

21. The next term in 88,78, 68, is?
    a) 48

b) 58

c) 68

d) 98

Answer (b)

22. Find the next term, 2, 10, 18, ?

a) 24

b) 26

c) 28

d) 30

Answer (b)

23. Find the next term 95, 84, 73?

a) 58

b) 62

c) 106

d) 108

Answer (b)

24. 5.9 X 100=

a) 59

b) 590

c) 5900

d) .059

Answer (b)

25. 2.700 X 10=

a) 27

b) 270

c) 2700

d) 27000

Answer (a)

26. Ali uses 2.5m of cloth to make a shirt. How much cloth will be used to make 8 such shirts?

a) 15m

b) 20m

c) 25m

d) 16m

Answer(b)

27. Rumaisa solves 5 questions of math in 8.5 min. How long does he take to solve 2 questions?

a) 1.7min

b) 2.4 min

c) 3.4min

d) 4.4min

Answer (c )

28. The mass of 4 boxes is 1.8Kg. What will be the mass of 3 boxes?

a) 1.25

b) 1.35

c) 1.45

d) 0.45

Answer(b)

29. The length of 08 rods is 72m. What will be the length of 7<sup>th</sup> of rod?

a) 5m

b) 7m

c) 9m

d) 11m

Answer ( c )

30. Ali runs 3Km in one hour having weight 90Kg. Shafqat runs 3Km in one hour having weight 50Kg. Kinza says, Ali runs 30Km in 10 hours.

a) True

b) False

c) Both a & b

d) None of these

Answer (a)

31. 13m48cm=

a) 1338cm

b) 1348cm

c) 1358cm

d) 1348mm

Answer ( b)

32. Arranging numbers in sequences is called?

a) Pattern

b) Conjugate

c) Whole numbers

d) Both a&b

Answer (a)

33. 56cm8mm=

a) 568m

b) 568cm

c) 568mm

d) 568km

Answer(c )

34. 1kg=

a) 1000g

b) 100g

c) 10g

d) 100km

Answer ( a)

35. 9/4 of 36=

a) 79
b) 80
c) 81
d) 82
   Answer (c )
36. 20/60=
   a) 1/3
   b) 1/4
   c) 1/5
   d) 1/6
      Answer (a)
37. 1/12 of 48=
   a) 3
   b) 4
   c) 5
   d) 6
      Answer (b)
38. 6/7 of 42=
   a) 42
   b) 36
   c) 38
   d) 64
      Answer (b)
39. How many 10s are in 6 of 1/10?
   a) 41
   b) 51
   c) 61
   d) 71
      Answer (c )
40. 30/45=
   a) 1/3
   b) 2/3
   c) 4/3
   d) 4/5
      Answer ( b)
41. 2/4 of 80Kg=
   a) 40
   b) 60
   c) 80
   d) 100
      Answer ( a)
42. 12/13 of 26=

a) 24
b) 25
c) 26
d) 28
Answer (a)

43. How many 9s are in 7 of 1/9?
a) 64
b) 65
c) 66
d) 68
Answer (a)

44. 80/120=
a) 1/3
b) 2/3
c) 1/4
d) 3/4
Answer (b)

45. 6/24 of 24=
a) 5
b) 6
c) 7
d) 8
Answer (b)

46. 16 of 5/9=
a) 54
b) 55
c) 56
d) 57
Answer ( b)

47. 18/60=
a) 1/10
b) 2/10
c) 3/10
d) 7/10
Answer (c )

48. 6/10 of 60=
a) 24
b) 36
c) 42
d) 48
Answer (b)

49. Reciprocal of 9/46 is?

a) 46/9
b) 36/9
c) 9
d) 46
   Answer (a)
50. 1/12 of 48=
a) 3
b) 4
c) 5
d) 6
   Answer ( b)
51. A circle has _____ lines of symmetry.
a) Finite
b) Infinite
c) Zero
d) None
   Answer (b)
52. It is possible all figure fold.
a) No
b) Yes
c) May be
d) None
   Answer (a)
53. 15 is the factor of?
a) 224
b) 115
c) 114
d) 225
   Answer (d)
54. Every number is a multiple of?
a) 1
b) 2
c) 3
d) 4
   Answer (a)
55. 16 is multiple of?
a) 4
b) 6
c) 7
d) 5
   Answer(a)
56. H.C.F of 16 & 36 is?

a) 4
b) 8
c) 12
d) 16
   Answer(a)
57. If sum of its digits is divisible by 9. A number is divisible by
    a) 7
    b) 9
    c) 11
    d) 13
       Answer( b)
58. $4^{th}$ multiple of 9 + $6^{th}$ multiple of 2 is?
    a) 46
    b) 47
    c) 48
    d) 49
       Answer( c )
59. $10^{th}$ multiple of 10 + $5^{th}$ multiple of 5 is?
    a) 125
    b) 126
    c) 127
    d) 128
       Answer(a)
60. H.C.F of 10,14,18=
    a) 2
    b) 3
    c) 4
    d) 5
       Answer (a)

1. The comparison of numbers always starts from the?
   a) Right
   b) Left
   c) Last
   d) Above
      Answer (b)
2. Find the next term in the pattern: 6, 18, 42?
   a) 48
   b) 54
   c) 60
   d) 66
      Answer ( b)
3. The next term in 88,78, 68, is?
   a) 48
   b) 58
   c) 68
   d) 98
      Answer (b)
4. Find the next term, 2, 10, 18, ?
   a) 24
   b) 26
   c) 28
   d) 30
      Answer (b)
5. Find the next term 95, 84, 73?
   a) 58
   b) 62
   c) 106
   d) 108
      Answer (b)
6. How many 10s are in 6 of 1/10?
   a) 41
   b) 51
   c) 61
   d) 71
      Answer (c )
7. 30/45=
   a) 1/3
   b) 2/3
   c) 4/3
   d) 4/5
      Answer ( b)

8. 2/4 of 80Kg=
   a) 40
   b) 60
   c) 80
   d) 100
      Answer ( a)
9. 12/13 of 26=
   a) 24
   b) 25
   c) 26
   d) 28
      Answer (a)
10. How many 9s are in 7 of 1/9?
    a) 64
    b) 65
    c) 66
    d) 68
       Answer (a)
11. 80/120=
    a) 1/3
    b) 2/3
    c) 1/4
    d) 3/4
       Answer (b)
12. 6/24 of 24=
    a) 5
    b) 6
    c) 7
    d) 8
       Answer (b)
13. 16 of 5/9=
    a) 54
    b) 55
    c) 56
    d) 57
       Answer ( b)
14. 18/60=
    a) 1/10
    b) 2/10
    c) 3/10
    d) 7/10
       Answer (c )

15. 6/10 of 60=
    a) 24
    b) 36
    c) 42
    d) 48
       Answer (b)

16. What number must be multiplied by 384 to get 28032?
    a) 72
    b) 73
    c) 74
    d) 75
       Answer ( b)

17. Asim wrote 300508 instead of writing 358. How much is 300508 greater than 358?
    a) 300150
    b) 300151
    c) 300152
    d) 300153
       Answer (a)

18. (8-3X2)+(5+2-1)-4=
    a) 2
    b) 3
    c) 4
    d) 5
       Answer (c )

19. 200+56/(190-83)-50=
    a) 61
    b) 62
    c) 63
    d) 64
       Answer (d)

20. We start addition & subtraction with?
    a) One
    b) Two
    c) Hundreds
    d) Thousands
       Answer ( a)

21. The number to be subtracted is known as
    a) Minuend
    b) Difference
    c) Addend
    d) Subtrahend
       Answer(d)

22. H.C.F of 117, 234, 156 is?
    a) 36
    b) 37
    c) 38
    d) 39
       Answer (d)

23. H.C.F of 52, 65, 91 is?
    a) 12
    b) 13
    c) 14
    d) 15
       Answer (b)

24. H.C.F of 126, 196, 238 is?
    a) 12
    b) 13
    c) 14
    d) 15
       Answer(c )

25. The least common multiple of 4, 8 & 12 is?
    a) 4
    b) 8
    c) 12
    d) 24
       Answer(d)

26. Fatima travelled 12Km by road & 20Km, 50000cm by train. Find the total distance?
    a) 32.5Km
    b) 33.5Km
    c) 34.5Km
    d) 35.5Km
       Answer (a)

27. To convert seconds into hours, we divide its value by?
    a) 1000
    b) 100
    c) 3600
    d) 60
       Answer ( c)

28. How many millimeters are there in 1Km
    a) 1000000mm
    b) 10000000mm
    c) 100000mm
    d) 1000000mm
       Answer (a)

29. A man leaves his office at 11:10am. He arrives at home after 3.5 hours. At what time he reaches his home.
    a) 2:40pm
    b) 3:40pm
    c) 4:40pm
    d) 5:50pm
       Answer (a)

30. Zain solved 15 questions in 75min. How much time is taken by him to solve 13$^{th}$ question at the same rate?
    a) 2min
    b) 3min
    c) 4min
    d) 5min
       Answer (d)

31. 6 pumps fill a water tank in 2 hours. How long it will take to fill the same tank if 2 pumps are out of order?
    a) 2 hours
    b) 3 hours
    c) 4 hours
    d) 5 hours
       Answer (b)

32. If 12 painters can paint a building in 08 days. In how many days will 16 painters can paint that building?
    a) 5
    b) 6
    c) 7
    d) 8
       Answer(b)

33. A cyclist travelled 10Km distance in one hour. Find the distance travelled by him in 2.5 hours?
    a) 20Km
    b) 35Km
    c) 30Km
    d) 25Km
       Answer (d)

34. Kinza Batool can solve 10 problems in an hour. How many questions she can solve in 4 hours?
    a) 2.5
    b) 10
    c) 20
    d) 40
       Answer ( d)

35. In which triangle, all sides are different?
    a) Scalene

b) Isosceles
c) Equilateral
d) Acute Angled
    Answer ( a)

36. Length & width of a rectangular ground are 100m & 60m. Calculate the distance covered along the boundary by an athlete in 5 rounds?
    a) 1400m
    b) 1500m
    c) 1600m
    d) 1700m
        Answer (c )

37. Perimeter of rectangular garden is 800m. The length of garden is 300m. Guess the width of garden?
    a) 10m
    b) 25m
    c) 50m
    d) 100m
        Answer (d)

38. The heights of six girls are 120cm, 124cm, `123cm, 130cm, 129cm & 130cm. Guess their average height?
    a) 124cm
    b) 125cm
    c) 126cm
    d) 127cm
        Answer (c )

39. The monthly income of four men is Rs. 20000. What will be total yearly income?
    a) Rs 80000
    b) Rs 920000
    c) Rs 960000
    d) Rs 1080000
        Answer ( c )

40. Average of 10 values is 200. Sum of nine of them is 1850. Guess 10<sup>th</sup> value?
    a) 120
    b) 130
    c) 140
    d) 150
        Answer (d)

41. The average score made by Inzamam in 20 innings is 55. The score of his 20<sup>th</sup> innings is 36. Find his average score of first 19innings.
    a) 56
    b) 57
    c) 58

    d) 59

      Answer (a)

42. If average of two values is 4 & one value is 6, then what is the other value?

    a) 8

    b) 6

    c) 4

    d) 2

      Answer ( d)

43. Ayesha has Rs. 23,456. Her grandmother gave her Rs. 13,131 more. Now she has Rs. ?

    a) 34567

    b) 36564

    c) 34564

    d) 38900

      Answer (a)

44. If the price of one book is Rs. 250, then the price of 22 books will be?

    a) Rs. 5555

    b) Rs. 5550

    c) Rs. 5500

    d) Rs. 5000

      Answer (c )

45. The first common multiple of 5 & 10 is?

    a) 5

    b) 10

    c) 20

    d) 50

      Answer( b)

46. Adeel uses 9.8 ml of oil to bake a cake. How much oil will she use to bake 10 such cakes?

    a) 980ml

    b) 98ml

    c) 9.80ml

    d) None of thses

      Answer(b)

47. To add the decimals, always _____ ones in ones, tenths in tenths & hundredths in hundreths.

    a) Add

    b) Subtract

    c) Multiply

    d) Divide

      Answer (a)

48. Harini buys 140cm of ribbon to wrap a gift box. Convert the length into mm.

    a) 1200mm

    b) 1300mm

    c) 1400mm

d) 1500mm

Answer(c )

49. A shopkeeper sells 49Kg 208g of sugar & 65Kg 750g of flour. What is the total quantity of sugar & flour in grams?

a) 114Kg958g
b) 116kg900g
c) 118Kg950kg
d) None of these

Answer(a)

50. A point is an _____ location in space.

a) Exact
b) Vertical
c) Horizontal
d) Curved

Answer (a)

51. A flag is always parallel to ground?

a) False
b) True
c) Lateral
d) None of the above

Answer (a)

52. The flag post is always _____ to the ground.

a) Perpendicular
b) Parallel
c) Curved
d) Both a & c

Answer (a)

53. 12min12sec=

a) 730sec
b) 732sec
c) 832sec
d) 932sec

Answer (b)

54. In the 12 hours format, 13:50 can be written as:

a) 1:50am
b) 3:50am
c) 1:50pm
d) 3:50pm

55. A bus has a capacity of 75 passengers. How many buses would be needed for carrying 1575 passengers?

a) 20
b) 21

c) 22

d) 23

Answer (b)

56. Ali has 1867 lego blocks. His sister gives him 4 more boxes of lego blocks. There are 1205 lego blocks in one box. How many lego blocks does Ali have in total?

a) 6686

b) 6687

c) 6688

d) 6689

Answer(b)

57. There are 4500 plants in 90 rows. Each row contains an equal number of plants. In one row, there are plants?

a) 30

b) 40

c) 50

d) 60

Answer( C)

58. By dividing 3960 by 88, wi will get?

a) 41

b) 42

c) 43

d) None of these

Answer (d)

59. Unit of area is?

a) $M^2$

b) Cm

c) Mm

d) Km

Answer ( a)

60. A rhombus has _____ sides?

a) 4

b) 5

c) 8

d) 12

Answer  (a)

Class 6<sup>th</sup> Paper

1. 0+(-10)=
   a) 10
   b) -10
   c) 0
   d) -0
   Answer (b)

2. (-40)+(-50)+60=
   a) 25
   b) -25
   c) 30
   d) -30
   Answer (d)

3. 17+8-3x2=
   a) 13
   b) 15
   c) 17
   d) 19
   Answer (d)

4. Rumaisa earns Rs. 2500 in 5 days. What is her pay for 03 days?
   a) 1000
   b) 1500
   c) 2000
   d) 2500
   Answer (b)

5. A car uses 20ltr of petrol to travel 170Km. How far can it travel if it has only 16 liters of petrol?
   a) 132Km
   b) 134Km
   c) 136Km
   d) 138Km
   Answer (c )

6. If A=Students in your class of age 5 years is a/an set?
   a) Empty
   b) Singleton
   c) Infinite
   d) Universal
   Answer( a)

7. Set of natural numbers between 1 & 3 is set?
   a) Empty
   b) Singleton
   c) Infinite
   d) Universal
   Answer (b)

8. The co-efficient of xy in 3x-9xy+6yz is?
   a) 3
   b) 6
   c) 9
   d) -9
   Answer ( d)

9. 2,4,7,11,…,7<sup>th</sup> term is?
   a) 29
   b) 28
   c) 27
   d) 26
   Answer (a)

10. If 3 times a number is added to 18, it becomes 36. What is number?
    a) 4
    b) 5
    c) 6
    d) 7
    Answer (c )

11. Kinza is 3 times as old as his son. Their combined age is 40 years. What are their ages?
    a) 10,30
    b) 12,36
    c) 13,39
    d) 14,52
    Answer (a)

12. In a linear equation, the exponent of the variable is?
    a) 1
    b) 2
    c) 3
    d) 0
    Answer( a)

13. Can you guess a number, divide it by 6, then subtract 4. The result is 0?
    a) 20
    b) 24
    c) 28
    d) 32
    Answer ( b)

14. One angle in the supplementary angles is the twice of other. Guess the both angles?
    a) 20 degree & 40 degree
    b) 40 degree & 80 degree
    c) 60 degree & 120 degree
    d) 80 degree & 160 degree
    Answer ( c )

15. If alternate angles are equal then lines are?
    a) Parallel
    b) Intersecting
    c) Perpendicular
    d) None of these
       Answer  (a)

16. Two vertical angles are 3x-3 & 36 degree. What is the value of x?
    a) 12
    b) 13
    c) 14
    d) 15
       Answer ( b)

17. The number of lines of symmetry for a regular polygon is equal to?
    a) Exterior angle
    b) Number of sides
    c) Number of diagonals
    d) Sum of interior angles
       Answer (b)

18. How many lines of symmetry can be drawn in a circle?
    a) 0
    b) 2
    c) 3
    d) Infinite
       Answer (d)

19. X, 2x, 3x are angles of a triangle. The value of x?
    a) 30
    b) 40
    c) 60
    d) 90
       Answer (a)

20. Perimeter of a rectangular garden is 25m. Its length is 7.5m more than its width. Guess the area of garden in $m^2$?
    a) 20
    b) 25
    c) 30
    d) 35
       Answer (b)

21. Area of a parallelogram is $48m^2$. Guess the height of the parallelogram in cms if its base is 12m.
    a) 200cm
    b) 400cm
    c) 600cm
    d) 100cm

Answer (b)

22. Area of rhombus shaped field is 72m$^2$. Its height is 6m. Guess the cost of the barbed wire around it at the rate of Rs. 15/m, if height of rhombus is 6m.
    a) Rs. 720
    b) Rs. 820
    c) Rs. 920
    d) Rs. 1020
       Answer( a )

23. Perimeter of an equilateral triangle is 21cm. Its height is 6cm. Guess area of traiangle in cm$^2$?
    a) 20
    b) 21
    c) 22
    d) 23
       Answer (b)

24. Volume of a rectangular wooden box is 2500m$^3$. It is 25m long & 5m high. Guess its width?
    a) 15m
    b) 20m
    c) 25m
    d) 30m
       Answer (b)

25. How many times do the area of a square increase when the length of its side is doubled?
    a) 2x
    b) 4x
    c) 8x
    d) 16x
       Answer ( b)

26. The number of faces in cube?
    a) 6
    b) 8
    c) 12
    d) 4
       Answer (a)

27. The median of the data 2,3,3,4,5,5,5, is?
    a) 3
    b) 4
    c) 2
    d) 5
       Answer ( b)

28. Probability of getting a head in flipping a coin is?
    a) 1
    b) 0
    c) ½

d) 1/6

Answer ( c )

29. The probability of equally likely events is?

    a) Equal
    b) Unequal
    c) Zero
    d) One

    Answer ( a)

30. Find the next term in the pattern: 6, 18, 42?

    a) 48
    b) 54
    c) 60
    d) 66

    Answer ( b)

31. The next term in 88,78, 68, is?

    a) 48
    b) 58
    c) 68
    d) 98

    Answer (b)

32. Find the next term, 2, 10, 18, ?

    a) 24
    b) 26
    c) 28
    d) 30

    Answer (b)

33. Find the next term 95, 84, 73?

    a) 58
    b) 62
    c) 106
    d) 108

    Answer (b)

34. How many 10s are in 6 of 1/10?

    a) 41
    b) 51
    c) 61
    d) 71

    Answer (c )

35. 30/45=

    a) 1/3
    b) 2/3
    c) 4/3

    d) 4/5

      Answer ( b)

36. 2/4 of 80Kg=

    a) 40

    b) 60

    c) 80

    d) 100

      Answer ( a)

37. 12/13 of 26=

    a) 24

    b) 25

    c) 26

    d) 28

      Answer (a)

38. How many 9s are in 7 of 1/9?

    a) 64

    b) 65

    c) 66

    d) 68

      Answer (a)

39. 80/120=

    a) 1/3

    b) 2/3

    c) 1/4

    d) 3/4

      Answer (b)

40. 6/24 of 24=

    a) 5

    b) 6

    c) 7

    d) 8

      Answer (b)

41. 16 of 5/9=

    a) 54

    b) 55

    c) 56

    d) 57

      Answer ( b)

42. 18/60=

    a) 1/10

    b) 2/10

    c) 3/10

d) 7/10

   Answer (c )

43. 6/10 of 60=

   a) 24
   b) 36
   c) 42
   d) 48

   Answer (b)

44. What number must be multiplied by 384 to get 28032?

   a) 72
   b) 73
   c) 74
   d) 75

   Answer ( b)

45. Asim wrote 300508 instead of writing 358. How much is 300508 greater than 358?

   a) 300150
   b) 300151
   c) 300152
   d) 300153

   Answer (a)

46. (8-3X2)+(5+2-1)-4=

   a) 2
   b) 3
   c) 4
   d) 5

   Answer (c )

47. 200+56/(190-83)-50=

   a) 61
   b) 62
   c) 63
   d) 64

   Answer (d)

48. We start addition & subtraction with?

   a) One
   b) Two
   c) Hundreds
   d) Thousands

   Answer ( a)

49. The number to be subtracted is known as

   a) Minuend
   b) Difference
   c) Addend

d) Subtrahend

Answer(d)

50. H.C.F of 117, 234, 156 is?
    a) 36
    b) 37
    c) 38
    d) 39

    Answer (d)

51. H.C.F of 52, 65, 91 is?
    a) 12
    b) 13
    c) 14
    d) 15

    Answer (b)

52. H.C.F of 126, 196, 238 is?
    a) 12
    b) 13
    c) 14
    d) 15

    Answer(c )

53. The least common multiple of 4, 8 & 12 is?
    a) 4
    b) 8
    c) 12
    d) 24

    Answer(d)

54. Fatima travelled 12Km by road & 20Km, 50000cm by train. Find the total distance?
    a) 32.5Km
    b) 33.5Km
    c) 34.5Km
    d) 35.5Km

    Answer (a)

55. To convert seconds into hours, we divide its value by?
    a) 1000
    b) 100
    c) 3600
    d) 60

    Answer ( c)

56. How many millimeters are there in 1Km
    a) 1000000mm
    b) 10000000mm
    c) 100000mm

d) 1000000mm

Answer (a)

57. Length & width of a rectangular ground are 100m & 60m. Calculate the distance covered along the boundary by an athlete in 5 rounds?
   a) 1400m
   b) 1500m
   c) 1600m
   d) 1700m

   Answer (c )

58. Perimeter of rectangular garden is 800m. The length of garden is 300m. Guess the width of garden?
   a) 10m
   b) 25m
   c) 50m
   d) 100m

   Answer (d)

59. The heights of six girls are 120cm, 124cm, `123cm, 130cm, 129cm & 130cm. Guess their average height?
   a) 124cm
   b) 125cm
   c) 126cm
   d) 127cm

   Answer (c )

60. The monthly income of four men is Rs. 20000. What will be total yearly income?
   a) Rs 80000
   b) Rs 920000
   c) Rs 960000
   d) Rs 1080000

   Answer ( c )

1. a +b=b+a
   a) Commutative property
   b) Associative property
   c) Distributive property
   d) Inverse property
      Answer (a)
2. Multiplicative inverse of 4/7 is?
   a) 4/6
   b) 2/4
   c) 7/4
   d) 7/7
      Answer (c )
3. Five eight of students at a college live in hostels. If 6000 students live in hostels, how many students are there in college?
   a) 9400
   b) 9500
   c) 9600
   d) 9800
      Answer ( c )
4. ½ (-6)(-3)=
   a) 4.5
   b) -9
   c) 9
   d) -4.5
      Answer ( c )
5. A prime number when added to 101 gives an odd prime number. Guess the number?
   a) 2
   b) 3
   c) 4
   d) 5
      Answer (a)
6. Square root of 1089 is?
   a) 31
   b) 33
   c) 35
   d) 37
      Answer (b)
7. Square root of 9801 is?
   a) 99
   b) 101
   c) 103
   d) 95

Answer (a)

8. Square root of 2116 is?
   a) 44
   b) 46
   c) 48
   d) 42
   
   Answer (b)

9. Square root of 4356 is?
   a) 46
   b) 56
   c) 66
   d) 78
   
   Answer (c )

10. Area of a square field is 2500m$^2$. Guess the perimeter of square field?
    a) 100m
    b) 200m
    c) 300m
    d) 50m
    
    Answer (b)

11. Let 5 liters of paint will cover 16m$^2$ & Rehman is painting a square pattern, what is the length of square the paint will cover?
    a) 2m
    b) 4m
    c) 6m
    d) 12m
    
    Answer ( b)

12. Length of rectangular region is double of its width. Guess perimeter if its area is 128cm$^2$.
    a) 18cm
    b) 28cm
    c) 38cm
    d) 48cm
    
    Answer (d)

13. A composite number has?
    a) 1 factor
    b) 2 factors
    c) More than 2 factors
    d) None of these
    
    Answer ( c )

14. Twin primes differ by?
    a) 1
    b) 2
    c) 3

d)  4

Answer  ( b)

15. The monthly rent of a stall is decreased in the ratio 5:6. As a result, the stall holder saves Rs. 4000 a month. Guess the original rent?

a)  12000

b)  14000

c)  22000

d)  24000

Answer (d)

16. A picture measuring 8.5 cm by 5.5cm is enlarged in the ratio 7:5. Guess the dimensions of the new picture?

a)  11.9cm, 7.7cm

b)  12cm, 8cm

c)  9cm, 6cm

d)  10cm, 9cm

Answer (a)

17. Kinza works 5 hours & earns Rs. 1500. How much will she get for working 15hours?

a)  2000

b)  2500

c)  4000

d)  4500

Answer (d)

18. A recipe requires 2 cups of flour to make 12 butter milk biscuits. How much flour is needed to make 30 biscuits?

a)  2 cups

b)  3 cups

c)  4 cups

d)  5 cups

Answer (d)

19. A water tank can be emptied in 50 minutes by 5 pumps. How long will it take if 1 pump is out of order?

a)  62 min

b)  62.5 min

c)  63 min

d)  63.5 min

Answer (b)

20. A man bought a dressing table for Rs. 8500. He sold it at a loss of 10%. Guess sale price?

a)  Rs. 7600

b)  Rs. 7650

c)  Rs. 7700

d)  Rs. 7750

Answer (b)

21. The marked price of a table is Rs. 800. It is sold at a discount of 16%. Guess the sale price?
    a) 671
    b) 672
    c) 673
    d) 674
        Answer (b)

22. A bicycle is sold for Rs. 12000 at a discount of 20%. Guess its marked price?
    a) 12000
    b) 13000
    c) 14000
    d) 15000
        Answer (d)

23. Asghar paid property tax worth Rs. 25800 for two plots @ 2.4%. Guess the value of each plot.
    a) 537000
    b) 537500
    c) 538000
    d) 538500
        Answer (b)

24. Sale price of 5 Juice packs including GST is Rs. 232. Guess the factory price of 1 juice pack, if rate of GST is 16%.
    a) 20
    b) 40
    c) 60
    d) 80
        Answer (b)

25. How much government revenue is collected by different taxes?
    a) 50%
    b) 70%
    c) 90%
    d) 30%
        Answer (b)

26. Guess Ushr on 850Kg wheat irrigated by artificial resources & 740Kg wheat irrigated by natural resources.
    a) 116kg
    b) 116.5kg
    c) 117kg
    d) 117.5kg
        Answer (b)

27. Output tax – input tax=
    a) Property tax
    b) GST
    c) Income tax

d) VAT

Answer ( d)

28. Guess the next term 7,14,21,28,…?

a) 35

b) 42

c) 49

d) 56

Answer (a)

29. Guess the next term 320000, 3200, 32, …?

a) 3.2

b) 0.32

c) 0.0032

d) 0.000032

Answer (b)

30. Guess the next term 45, 33, 60, 44,75,…?

a) 90

b) 55

c) 50

d) 45

Answer (b)

31. 8 is a polynomial of degree?

a) 0

b) 1

c) 2

d) 4

Answer ( a)

32. All points lying on x-axis have y-coordinate _____ if x & y are positive.

a) 0

b) 1

c) -1

d) 2

Answer ( a)

33. (x,y) when lies in third quadrant has coordinates?

a) (-x,y)

b) (-x,-y)

c) (x,y)

d) (x,-y)

Answer (b)

34. The coordinates of the points (x,0) when translated 2 units to left and 1 unit up?

a) X+2, 1

b) X-2,-1

c) X+2,-1

d) X-2,1

Answer ( d)

35. If 4x-20=2x+6, then x=?

a) 12

b) 13

c) 14

d) 15

Answer (b)

36. Guess three consecutive odd numbers whose sum is 57?

a) 17, 17, 23

b) 17, 19, 21

c) 15, 17, 25

d) 17, 18, 22

Answer (b)

37. A linear equation in two variables always represents a?

a) Straight line

b) Triangle

c) Quadrilateral

d) Line segment

Answer ( a)

38. A polygon in which at least one of the angles is greater than 180 degree is called ?

a) Concave polygon

b) Convex polygon

c) Concave & convex polygon

d) None of these

Answer (a)

39. The measure of exterior angle of a regular pentagon at each vertex is?

a) 71 degree

b) 72 degree

c) 75 degree

d) 90 degree

Answer (b)

40. Which type of angle is present in all types of triangle?

a) Acute

b) Right

c) Obtuse

d) Straight

Answer ( a)

41. Guess the circumference of a circle having a diameter 4.2cm?

a) 13cm

b) 13.2cm

c) 15cm

    d) 11.5cm

      Answer (b)

42. 0+(-10)=

    a) 10

    b) -10

    c) 0

    d) -0

      Answer (b)

43. (-40)+(-50)+60=

    a) 25

    b) -25

    c) 30

    d) -30

      Answer (d)

44. 17+8-3x2=

    a) 13

    b) 15

    c) 17

    d) 19

      Answer (d)

45. If A=Students in your class of age 5 years is a/an set?

    a) Empty

    b) Singleton

    c) Infinite

    d) Universal

      Answer( a)

46. Set of natural numbers between 1 & 3 is set?

    a) Empty

    b) Singleton

    c) Infinite

    d) Universal

      Answer (b)

47. The co-efficient of xy in 3x-9xy+6yz is?

    a) 3

    b) 6

    c) 9

    d) -9

      Answer ( d)

48. 2,4,7,11,…,7<sup>th</sup> term is?

    a) 29

    b) 28

    c) 27

d) 26
   Answer (a)
49. If 3 times a number is added to 18, it becomes 36. What is number?
   a) 4
   b) 5
   c) 6
   d) 7
   Answer (c )
50. How many times do the area of a square increase when the length of its side is doubled?
   a) 2x
   b) 4x
   c) 8x
   d) 16x
   Answer ( b)
51. The number of faces in cube?
   a) 6
   b) 8
   c) 12
   d) 4
   Answer (a)
52. The median of the data 2,3,3,4,5,5,5, is?
   a) 3
   b) 4
   c) 2
   d) 5
   Answer ( b)
53. Probability of getting a head in flipping a coin is?
   a) 1
   b) 0
   c) ½
   d) 1/6
   Answer ( c )
54. The probability of equally likely events is?
   a) Equal
   b) Unequal
   c) Zero
   d) One
   Answer ( a)
55. Find the next term in the pattern: 6, 18, 42?
   a) 48
   b) 54
   c) 60

d) 66

Answer ( b)

56. The next term in 88,78, 68, is?
    a) 48
    b) 58
    c) 68
    d) 98

    Answer (b)

57. Find the next term, 2, 10, 18, ?
    a) 24
    b) 26
    c) 28
    d) 30

    Answer (b)

58. Find the next term 95, 84, 73?
    a) 58
    b) 62
    c) 106
    d) 108

    Answer (b)

59. How many 10s are in 6 of 1/10?
    a) 41
    b) 51
    c) 61
    d) 71

    Answer (c )

60. 30/45=
    a) 1/3
    b) 2/3
    c) 4/3
    d) 4/5

    Answer ( b)

1. a +b=b+a
   a) Commutative property
   b) Associative property
   c) Distributive property
   d) Inverse property
      Answer (A)

2. Multiplicative inverse of 4/7 is?
   a) 4/6
   b) 2/4
   c) 7/4
   d) 7/7
      Answer (C )

3. Five eight of students at a college live in hostels. If 6000 students live in hostels, how many students are there in college?
   a) 9400
   b) 9500
   c) 9600
   d) 9800
      Answer ( C )

4. ½ (-6)(-3)=
   a) 4.5
   b) -9
   c) 9
   d) -4.5
      Answer ( C )

5. A prime number when added to 101 gives an odd prime number. Guess the number?
   a) 2
   b) 3
   c) 4
   d) 5
      Answer (A)

6. Square root of 1089 is?
   a) 31
   b) 33
   c) 35
   d) 37
      Answer (B)

7. Square root of 9801 is?
   a) 99
   b) 101
   c) 103
   d) 95

Answer (A)

8. Square root of 2116 is?
   a) 44
   b) 46
   c) 48
   d) 42

   Answer (B)

9. Square root of 4356 is?
   a) 46
   b) 56
   c) 66
   d) 78

   Answer (C)

10. Area of a square field is 2500m$^2$. Guess the perimeter of square field?
    a) 100m
    b) 200m
    c) 300m
    d) 50m

    Answer (B)

11. Let 5 liters of paint will cover 16m$^2$ & Rehman is painting a square pattern, what is the length of square the paint will cover?
    a) 2m
    b) 4m
    c) 6m
    d) 12m

    Answer ( B)

12. Length of rectangular region is double of its width. Guess perimeter if its area is 128cm$^2$.
    a) 18cm
    b) 28cm
    c) 38cm
    d) 48cm

    Answer (D)

13. A composite number has?
    a) 1 factor
    b) 2 factors
    c) More than 2 factors
    d) None of these

    Answer ( C )

14. The monthly rent of a stall is decreased in the ratio 5:6. As a result, the stall holder saves Rs. 4000 a month. Guess the original rent?
    a) 12000
    b) 14000

c) 22000

d) 24000

Answer (D)

15. A picture measuring 8.5 cm by 5.5cm is enlarged in the ratio 7:5. Guess the dimensions of the new picture?

a) 11.9cm, 7.7cm

b) 12cm, 8cm

c) 9cm, 6cm

d) 10cm, 9cm

Answer (A)

16. A recipe requires 2 cups of flour to make 12 butter milk biscuits. How much flour is needed to make 30 biscuits?

a) 2 cups

b) 3 cups

c) 4 cups

d) 5 cups

Answer (D)

17. A water tank can be emptied in 50 minutes by 5 pumps. How long will it take if 1 pump is out of order?

a) 62 min

b) 62.5 min

c) 63 min

d) 63.5 min

Answer (B)

18. Guess the next term 7,14,21,28,…?

a) 35

b) 42

c) 49

d) 56

Answer (A)

19. Guess the next term 320000, 3200, 32, …?

a) 3.2

b) 0.32

c) 0.0032

d) 0.000032

Answer (B)

20. Guess the next term 45, 33, 60, 44,75,…?

a) 90

b) 55

c) 50

d) 45

Answer (B)

21. 8 is a polynomial of degree?
    a) 0
    b) 1
    c) 2
    d) 4
       Answer ( A)

22. All points lying on x-axis have y-coordinate _____ if x & y are positive.
    a) 0
    b) 1
    c) -1
    d) 2
       Answer ( A)

23. (x,y) when lies in third quadrant has coordinates?
    a) (-x,y)
    b) (-x,-y)
    c) (x,y)
    d) (x,-y)
       Answer (B)

24. The coordinates of the points (x,0) when translated 2 units to left and 1 unit up?
    a) X+2, 1
    b) X-2,-1
    c) X+2,-1
    d) X-2,1
       Answer ( D)

25. If 4x-20=2x+6, then x=?
    a) 12
    b) 13
    c) 14
    d) 15
       Answer (B)

26. Guess three consecutive odd numbers whose sum is 57?
    a) 17, 17, 23
    b) 17, 19, 21
    c) 15, 17, 25
    d) 17, 18, 22
       Answer (B)

27. A linear equation in two variables always represents a?
    a) Straight line
    b) Triangle
    c) Quadrilateral
    d) Line segment
       Answer ( A)

28. Guess the circumference of a circle having a diameter 4.2cm?
    a) 13cm
    b) 13.2cm
    c) 15cm
    d) 11.5cm
       Answer (B)

29. 0+(-10)=
    a) 10
    b) -10
    c) 0
    d) -0
       Answer (B)

30. (-40)+(-50)+60=
    a) 25
    b) -25
    c) 30
    d) -30
       Answer (D)

31. 17+8-3x2=
    a) 13
    b) 15
    c) 17
    d) 19
       Answer (D)

32. Set of natural numbers between 1 & 3 is set?
    a) Empty
    b) Singleton
    c) Infinite
    d) Universal
       Answer (B)

33. The co-efficient of xy in 3x-9xy+6yz is?
    a) 3
    b) 6
    c) 9
    d) -9
       Answer ( D)

34. 2,4,7,11,…,7<sup>th</sup> term is?
    a) 29
    b) 28
    c) 27
    d) 26
       Answer (A)

35. If 3 times a number is added to 18, it becomes 36. What is number?
    a) 4
    b) 5
    c) 6
    d) 7
       Answer (C)

36. How many times do the area of a square increase when the length of its side is doubled?
    a) 2x
    b) 4x
    c) 8x
    d) 16x
       Answer ( B)

37. The probability of equally likely events is?
    a) Equal
    b) Unequal
    c) Zero
    d) One
       Answer ( A)

38. Find the next term in the pattern: 6, 18, 42?
    a) 48
    b) 54
    c) 60
    d) 66
       Answer ( B)

39. Find the next term 95, 84, 73?
    a) 58
    b) 62
    c) 106
    d) 108
       Answer (B)

40. How many 10s are in 6 of 1/10?
    a) 41
    b) 51
    c) 61
    d) 71
       Answer (C)

41. Guess the cube root of 729?
    a) 6
    b) 9
    c) 13
    d) 11
       Answer (B)

42. Guess the cube root of 3375?
    a) 12
    b) 15
    c) 17
    d) 19
       Answer (B)

43. 20 men can eat some quantity of food in 12 days. In how many days, 30 men can eat the same food?
    a) 2
    b) 4
    c) 6
    d) 8
       Answer (D)

44. There is profit of Rs. 2100 @ 8% for 7 years on some principal amount. Guess the principal amount?
    a) 3700
    b) 3750
    c) 3800
    d) 3850
       Answer (B)

45. Zoya bought a house for Rs. 2500000. After two years she sold it to her brother Liaqat for Rs. 2600000. Liaqat sold the house at the loss of 10%. Guess the net loss?
    a) 120000
    b) 140000
    c) 160000
    d) 180000
       Answer (C )

46. Guess the marked price of a bicycle, which a retailer sells to a customer for Rs. 8500 with 15% discount?
    a) 9000
    b) 10000
    c) 11000
    d) 8000
       Answer (B)

47. Amount of annual premium paid by a man is Rs. 2850 for 20 years. Policy fee is Rs. 100 & family income contract fee is Rs. 250. Guess the total amount of policy if first premium is 5% of the policy amount.
    a) 25000
    b) 50000
    c) 75000
    d) 90000
       Answer (B)

48. Time period agreed by both parties in the insurance policy is called?
    a) Premium
    b) Maturity period
    c) Times duration
    d) Depreciation
       Answer ( B)

49. Solve using algebraic formula $(103)^2$?
    a) 10609
    b) 10906
    c) 19600
    d) 10103
       Answer (A)

50. Common difference in arithmetic sequence 11,14,17,20 is?
    a) 2
    b) 3
    c) 4
    d) 5
       Answer (B)

51. There are 75 packets of fruit in first carriage, 85 in $2^{nd}$ carriage & 95 in $3^{rd}$ carriage. Guess the number of packets in $7^{th}$ carriage?
    a) 125
    b) 135
    c) 145
    d) 155
       Answer (B)

52. The simplified form of (a+b)-(a-b) is ?
    a) 4ab
    b) 2a+2b
    c) 2b
    d) 2a
       Answer ( C )

53. If (6,c)=(-d,-1), then the value of d is?
    a) -1
    b) 6
    c) C
    d) -6
       Answer (D)

54. Images produced under rigid transformation are?
    a) Similar
    b) Congruent
    c) Different
    d) Same

Answer (B)

55. The scale factor k=1 of a figure corresponds to a dilation as
    a) Enlargement
    b) Reduction
    c) No change
    d) None of these
       Answer (C )

56. Can you guess the arc length of a circle with central angle of 60 degree & radius 6 cm.
    a) 6.18cm
    b) 6.28cm
    c) 6.38cm
    d) 6.48cm
       Answer (B)

57. Angle in semicircle is always
    a) 100 degree
    b) 150 degree
    c) 180 degree
    d) 90 degree
       Answer ( D)

58. In a quadrilateral EFGH, EF=FG=GH=HE & E is not equal to 90 degree, and then EFGH is?
    a) Square
    b) Rectangle
    c) Parallelogram
    d) Rhombus
       Answer ( D)

59. Guess the volume of a semi spherical bowl in litres whose diameter is 4.2m.
    a) 19402 litres
    b) 19404 litres
    c) 19406 litres
    d) 19408 litres
       Answer (B)

60. What type of graph is most suitable to represent data on production of wheat during last five years?
    a) Bar graph
    b) Line graph
    c) Pie graph
    d) Multiple bar graph
       Answer ( D)

1. A square matrix is that having order?
   a) 1-by-2
   b) 2-by-2
   c) 3-by-2
   d) 4-by-2
      Answer: B

2. $i^{50} =$
   a) 1
   b) -1
   c) -2
   d) 2
      Answer: B

3. Imaginary part of -3i+2 is?
   a) 2
   b) -2
   c) 3i
   d) -3i
      Answer: D

4. 2(5+4i)-3(7+4i)=
   a) -5-4i
   b) -11-4i
   c) -13-5i
   d) 11-4i
      Answer: B

5. A non-terminating, non-recurring decimal represents?
   a) Natural number
   b) Rational number
   c) Irrational number
   d) Prime number
      Answer: C

6. The value of L in $\log_3 81 = L$ is?
   a) 2
   b) 3
   c) 4
   d) 5
      Answer: C

7. The value of x in $\log_x 64 = 2$ is?
   a) 2
   b) 4
   c) 6
   d) 8
      Answer: D

8. If log 2=0.3010, log 3=0.4771, log 5=0.6990, then value of log 24 is?
   a) 1.5050
   b) 1.3801
   c) 0.2615
   d) 0.4259
      Answer: B

9. The logarithm of unity to any base is?
   a) 1
   b) 10
   c) E
   d) 0
      Answer: D

10. If a+b+c=7 and ab+bc+ca=9 then, $a^2+b^2+c^2$=?
    a) 28
    b) 30
    c) 31
    d) 33
       Answer: C

11. If 2x-3y=10 and xy=2, then $8x^3-27y^3$=?
    a) 1420
    b) 1360
    c) 1540
    d) 1340
       Answer: B

12. If x+1/x=8 then $x^3+1/x^3$=?
    a) 466
    b) 488
    c) 455
    d) 460
       Answer: B

13. If x+y=7 and xy=12, then $x^3+y^3$=?
    a) 89
    b) 91
    c) 93
    d) 95
       Answer: B

14. If a+b+c=10 and ab+bc+ca=27 then, $a^2+b^2+c^2$=?
    a) 42
    b) 44
    c) 46
    d) 48
       Answer: C

15. If 5x-6y=13 and xy=6, then $125x^3-216y^3$=?
    a) 4563
    b) 8976
    c) 9217
    d) 7634
       Answer: C

16. Waqas wishes to distribute 128 bananas and also 176 apples equally among a certain number of children. Guess the highest number of children who can get the fruits in this way?
    a) 12
    b) 14
    c) 16
    d) 56
       Answer: C

17. H.C.F of $x^3 y-yx^3$ & $x^5 y^2 - y^2 x^5$ is?
    a) Xy(x-y)
    b) X(xy-y)
    c) Y(xy-y)
    d) Xy-y
       Answer: A

18. If 9x-2(x-2)=25 , then x=?
    a) 1
    b) 2
    c) 3
    d) 0
       Answer: C

19. Every real number is a?
    a) Rational number
    b) Positive number
    c) Negative number
    d) Complex number
       Answer: D

20. The value of $i^{52}$?
    a) 1
    b) -1
    c) 0
    d) None of these
       Answer: A

21. The value of $i^{88}$?
    a) 1
    b) -1
    c) 0
    d) None of these

Answer: A

22. The value of $i^{40}$?
    a) 1
    b) -1
    c) 0
    d) None of these
    Answer: A

23. The value of $i^{90}$?
    a) 1
    b) -1
    c) 0
    d) None of these
    Answer: B

24. The value of $i^{78}$?
    a) 1
    b) -1
    c) 0
    d) None of these
    Answer: B

25. The value of $i^{100}$?
    a) 1
    b) -1
    c) 0
    d) None of these
    Answer: A

26. The value of $i^{70}$?
    a) 1
    b) -1
    c) 0
    d) None of these
    Answer: B

27. If a+b = 7 & a – b=3, then ab=?
    a) 8
    b) 10
    c) 34
    d) 56
    Answer: B

28. If a+b+c=6 and $a^2+b^2+c^2=24$ then, ab+bc+ca=?
    a) 2
    b) 4
    c) 6
    d) 8

Answer: C
29. A surd which contains a single term is called?
    a) Monomial surd
    b) Binomial surd
    c) Polynomial surd
    d) None of these
    Answer: A
30. In -2<x<3/2, x=?
    a) -5
    b) 3
    c) 2
    d) 0
    Answer: D
31. X=0 is a solution of inequality?
    a) X>0
    b) X<0
    c) X-2<0
    d) X+2>5
    Answer: C
32. If (x-1, y+1) = (0,0), then (x,y) is?
    a) 0,1
    b) 1,-1
    c) -1,1
    d) 0,-1
    Answer: B
33. Point (2,-3) lies in quadrant
    a) I
    b) II
    c) III
    d) IV
    Answer: D
34. If y=2x+1, x=2, then y=?
    a) 2
    b) 3
    c) 4
    d) 5
    Answer: D
35. Point ( -3,-3) lies in?
    a) I
    b) II
    c) III
    d) IV

Answer: C

36. Which pair satisfies the equation?
    a) 1,2
    b) 2,1
    c) 2,2
    d) 0,1
       Answer: A

37. Guess the distance between (9,2) & (7,2)?
    a) 1
    b) 2
    c) 3
    d) 4
       Answer: B

38. Guess the distance between (2,-6) & (3,-6)?
    a) 1
    b) 2
    c) 3
    d) 4
       Answer: A

39. Guess the distance between (-8,1) & (6,1)?
    a) 12
    b) 14
    c) 16
    d) 18
       Answer: B

40. Guess the distance between (0,0) & (0,-5)?
    a) 2
    b) 3
    c) 4
    d) 5
       Asnwer: D

41. Guess the distance between (-8,0) & (0,6)?
    a) 10
    b) 20
    c) 30
    d) 5
       Answer: A

42. If transpose of A=A, then it is?
    a) Square matric
    b) Symmetric Matrix
    c) Skew-symmetric matrix
    d) Diagonal Matrix

Answer: B

43. If diagonal entries of a matrix are same, then it is?
    a) Diagonal matrix
    b) Scalar matrix
    c) Identity matrix
    d) Square matrix
       Answer: B

44. If all diagonal entries of a matrix are 1, then it is?
    a) Scalar matrix
    b) Identity matrix
    c) Unit matrix
    d) Both b & c
       Answer: D

45. If all entries of a matrix are zero then it is?
    a) Scalar matrix
    b) Null matrix
    c) Unit matrix
    d) Square matrix
       Answer: B

46. A matrix obtained by changing the rows into column is called?
    a) Transpose matrix
    b) Symmetric matrix
    c) Null matrix
    d) Unit matrix
       Answer: A

47. If rows and columns of matrix are not same, then it is?
    a) Square matrix
    b) Polygon matrix
    c) Rectangular matrix
    d) Unit matrix
       Answer: C

48. If a matrix has only one row, then it is?
    a) Column matrix
    b) Row matrix
    c) Row & column matrix
    d) None of these
       Answer: A

49. If a matrix has order 3-by-3, then it is?
    a) Square matrix
    b) Rectangular matrix
    c) Symmetric matrix
    d) Unit matrix

Answer: A

50. If a matrix has 2 rows & 5 columns, then it is?
    a) Row matrix
    b) Column matrix
    c) Scalar matrix
    d) None of these
    Answer: D

51. If you put 5 in the equation x+5=10, then it is?
    a) Equal equation
    b) Equivalent equation
    c) Polynomial Equation
    d) None of these
    Answer: A

52. If a matrix has only one entry, then it is called?
    a) Unit matrix
    b) Singular matric
    c) Scalar matric
    d) Zero matrix
    Answer: B

53. If you changes rows into columns of a matrix, it becomes?
    a) Singular matrix
    b) Non-singular matrix
    c) Unit matrix
    d) Transpose matrix
    Answer: D

54. If you see a matrix having entries zero is called?
    a) Null matrix
    b) Scalar matrix
    c) Unit matrix
    d) Diagonal matrix
    Answer: A

55. Equations solved by algebraic formula are called?
    a) Algebraic equations
    b) Matrix
    c) Geometry
    d) Binomial theorem
    Answer: A

56. If a matrix has one entry only and that is zero, then matrix will be
    a) Null matrix
    b) Singular matrix
    c) Scalar matrix
    d) Both a & b

Answer: D

57. If a matrix has 10 rows & 01 column, then it is?
    a) Singular matrix
    b) Column matrix
    c) Rectangular matrix
    d) Both b & c
       Answer: D

58. If a matrix has order 2-by-2, then it is
    a) Square matrix
    b) Rectangular matric
    c) Unit matrix
    d) None of these
       Answer: A

59. Conjugate can be obtained by changing the sign of?
    a) Real part
    b) Imaginary part
    c) Both a & b
    d) None of these
       Answer: B

60. Can factorization method be used to solve an equation?
    a) Yes
    b) No
    c) May be
    d) None of these
       Answer: A

1. The number of terms in a standard quadratic equation $ax^2 + bx + c=0$ is?
   a) 1
   b) 2
   c) 3
   d) 4
      Answer: C

2. Sum of cube roots of unity is
   a) 0
   b) 1
   c) 2
   d) 3
      Answer: A

3. If $\alpha$, $\beta$ are the roots of $3x^2 +5x - 2=0$, then $\alpha+\beta$ is
   a) 5/3
   b) 3/5
   c) -5/3
   d) -2/3
      Answer: C

4. If $\alpha$, $\beta$ are the roots of $7x^2 -x + 4=0$, then $\alpha\beta$ is
   a) -1/7
   b) 4/7
   c) 7/4
   d) -4/7
      Answer: B

5. Roots of equation $4x^2 +5x + 2=0$, are
   a) Irrational
   b) Imaginary
   c) Rational
   d) None of these
      Answer: B

6. Product of cube roots of unity is?
   a) 0
   b) 1
   c) -1
   d) 3
      Answer: B

7. If $b^2 - 4ac < 0$, then the roots of $ax^2 +bx + c=0$ are
   a) Irrational
   b) Rational
   c) Imaginary
   d) None of these
      Answer: C

8. If $b^2 - 4ac > 0$, but not a perfect square then the roots of $ax^2 + bx + c = 0$ are
   a) Irrational
   b) Rational
   c) Imaginary
   d) None of these
      Answer: A

9. Two roots of unity are?
   a) 1, -1
   b) 2, -2
   c) 3, -3
   d) 0, 4
      Answer: A

10. If $\alpha$, $\beta$ are the roots of $px^2 + qx + r = 0$, then sum of roots $2\alpha$ & $2\beta$ is
    a) $-q/p$
    b) $r/p$
    c) $-2q/p$
    d) 1
       Answer: C

11. If $\alpha$, $\beta$ are the roots of $x^2 - x - 1 = 0$, then products of roots $2\alpha$ & $2\beta$ is
    a) -2
    b) 2
    c) 4
    d) -4
       Answer: D

12. The sum of five ties a number and the square of the number is 204. Guess the number?
    a) 8
    b) 12
    c) 16
    d) 18
       Answer: B

13. The sum of the squares of two digits of a positive integral number is 65 and the number is 9 times the sum of its digits. Guess the number?
    a) 61
    b) 81
    c) 71
    d) 78
       Answer: B

14. Guess two integers whose difference is 4 and whose squares differ by 72?
    a) 9, 11
    b) 11, 7
    c) 9, 8
    d) 2, 7

Answer: B

15. In an ordered pair (x,y), x always occupies
    a) $1^{st}$ place
    b) $2^{nd}$ place
    c) $3^{rd}$ place
    d) $4^{th}$ place
    Answer: A

16. A ratio has?
    a) 1 unit
    b) 2 units
    c) No units
    d) None of these
    Answer: C

17. Guess the value of a, if the ratios a+3:7+a and 4:5 are equal?
    a) 11
    b) 23
    c) 13
    d) 33
    Answer: C

18. If 2 is added in each number of the ratio 3:4, we get a new ratio 5:6. Guess the numbers?
    a) 1,2
    b) 2,3
    c) 3,4
    d) 4,5
    Answer: C

19. In a proportion a:b = c: d, b,c is called?
    a) Ratio
    b) Extremes
    c) Means
    d) None of these
    Answer: C

20. In a proportion a:b = c: d, a,d is called?
    a) Ratio
    b) Extremes
    c) Means
    d) None of these
    Answer: B

21. Guess the value of x, if 60m: 90m :: 20kg : x kg
    a) 15
    b) 30
    c) 45
    d) 60

Answer: B

22. Guess the cost of 15kg sugar, if 7 kg of sugar costs Rs. 560.
    a) 1100
    b) 1200
    c) 1300
    d) 1400
    Answer: B

23. Guess the cost of 8kg of mangoes, if 5kg of mangoes cost Rs 250.
    a) 400
    b) 600
    c) 800
    d) 1000
    Answer: A

24. If A varies directly as the square of r and A=1782/7 cm$^2$, where r=9cm. let r=14cm, then value of A will be?
    a) 542 cm$^2$
    b) 616 cm$^2$
    c) 720 cm$^2$
    d) None of these
    Answer: B

25. If y varies inversely as x and y=8, when x=4. Find y, when x=16?
    a) 1
    b) 2
    c) 3
    d) 4
    Answer: B

26. If y varies directly as cube of x & y=81 when x=3, so evaluate y when x=5.
    a) 175
    b) 275
    c) 375
    d) 475
    Answer: C

27. In continued proportion a:b=b:c, c is said to be_____ proportional to a & b
    a) Third
    b) Fourth
    c) Means
    d) None of these
    Answer: A

28. The quotient of two numbers or algebraic expressions is called ?
    a) Polynomial
    b) Fraction
    c) Binomial

d) None of these

Answer: B

29. The different number of ways to describe a set is?

a) 1

b) 2

c) 3

d) 4

Answer: C

30. A set with no element is called

a) Empty set

b) Singleton set

c) Subset

d) Superset

Answer: A

31. The set having only one element is called

a) Singleton set

b) Power set

c) Subset

d) Superset

Answer: A

32. The number of elements in power set {1,2,3} is

a) 4

b) 6

c) 8

d) 9

Answer: C

33. If a number of elements in set A is 3 and in set B is 4, then number of elements AxB is

a) 3

b) 4

c) 12

d) 7

Answer: C

34. Point (-1,4) lies in the quadrant

a) I

b) II

c) III

d) IV

Answer: B

35. The relation {(1,2), (2,3), (3,3), (3,4)} is

a) Onto function

b) Into function

c) Not a function

d) One-one function

Answer: C

36. On a 5 term tests in mathematics, a student has made marks 82, 93, 86, 92 & 79. Guess the median for marks?

a) 82
b) 93
c) 86
d) 79

Answer: C

37. A grouped frequency table is also called

a) Data
b) Frequency distributions
c) Frequency polygons
d) None of these

Answer: A

38. A frequency polygon is many sided

a) Closed figure
b) Rectangle
c) Square
d) None of these

Answer: A

39. A histogram is a set of adjacent

a) Squares
b) Rectangles
c) Circles
d) None of these

Answer: B

40. A deviation is defined as a difference of any value of the variable  from a

a) constant
b) histogram
c) sum
d) none of these

Answer: A

41. A data in the form of frequency distribution is called

a) Grouped data
b) Ungrouped data
c) Histogram
d) None of these

Answer: A

42. Mean of a variable with similar observations say constant k is

a) Negative
b) K itself

c) Zero

d) None of these

Answer: B

43. Mean is affected by change in

a) Value

b) Ratio

c) Origin

d) None of these

Answer: C

44. Sum of deviations of the variable X from its mean is always

a) Zero

b) One

c) Same

d) None of these

Answer: A

45. The most frequent occurring observation in a data set is called?

a) Mode

b) Median

c) Harmonic mean

d) None of these

Answer: A

46. The observations that divide a data set into four equal parts are called

a) Deciles

b) Quartiles

c) Percentiles

d) None of these

Answer: B

47. Bisectors of angles formed with any one side of a parallelogram intersect each other at angle:

a) 90

b) 60

c) 30

d) 15

Answer: A

48. The perpendicular bisectors the sides of a triangle are:

a) Perpendicular

b) Concurrent

c) Equal

d) None of these

Answer: B

49. Right bisectors of sides of an obtuse angled triangle meet?

a) On the base

b) On the hypotenuse
c) Outside the triangle
d) Inside the triangle

Answer: C

50. The distance between a line and a point lying on it is_____:

a) Half
b) Equal
c) Zero
d) Double

Answer: C

51. The hypotenuse of a right angle triangle is _____ than each of the other two sides:

a) Smaller
b) Longer
c) Half
d) Double

Answer: B

52. A point equidistant from the end points of a line-segment is on its

a) Right bisector
b) Left bisector
c) Perpendicular
d) Median

Answer: A

53. For two triangles, if two angles and the included side of one triangle are equal to two angles and the included side of another triangle. Then the congruency rule is:

a) SSS
b) ASA
c) SAS
d) None of these

Answer: B

54. If E and F are the midpoints of equal sides AB and AC of a triangle ABC. Then:

a) BF=AC
b) BF=AF
c) CE=AB
d) BF=CE

Answer: D

55. ABC is an isosceles triangle in which altitudes BE and CF are drawn to equal sides AC and AB, respectively. Then:

a) BE>CF
b) BE<CF
c) BE=CF
d) None of these

Answer: C

56. Which of the following is not a criterion for congruence of triangles?
a) SAS
b) ASA
c) SSS
d) SSA
Answer: D

57. In triangles ABC and PQR, AB = AC, $\angle C = \angle P$ and $\angle B = \angle Q$. The two triangles are
a) Isosceles and congruent
b) Isosceles but not congruent
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d) Neither congruent nor isosceles
Answer: B

58. In equation, y = mx+c, m is:
a) Intercept
b) Solution
c) Slope
d) None of these
Answer: C

59. The section formed by horizontal and vertical lines determining the position of the point in a Cartesian plane is called:
a) X-axis
b) Y-axis
c) Z-axis
d) Quadrants
Answer: D

60. If $\triangle ABC \cong \triangle PQR$, then which of the following is not true?
a) AC=PR
b) BC=PQ
c) QR=BC
d) AB=PQ
Answer: B

1. R – {0} is a group w. r. t the binary operation
   a) +
   b) X
   c) –
   d) %
   Answer: B

2. A compound proposition which is always true is called:
   a) Tautology
   b) Contradiction
   c) Absurdity
   d) Contingency
   Answer: A

3. If order of A is m × n and order of B is n × q then order of AB is
   a) m × n
   b) n × m
   c) n × q
   d) m × q
   Answer: D

4. The direction of an inequality will be reversed if it is multiplied on both sides by a
   a) Positive number
   b) Negative number
   c) Zero
   d) Any number
   Answer: B

5. Any complex number 'ai ' can be written in order pair form as
   a) {i,0}
   b) {0,a}
   c) {a,0}
   d) {a,1}
   Answer: D

6. Modulus of complex number 3-4i =
   a) 4
   b) 5
   c) 6
   d) 7
   Answer: B

7. 2<3∨ 5<6 is
   a) True
   b) False
   c) may be true or false
   d) both a and b
   Answer: A

8. In a reciprocal equations, the coefficients of the term equidistant from the beginning and end are
   a) Zero
   b) Different
   c) equal in magnitude
   d) reciprocal of each other
   Answer: C

9. If the difference between the cubes of two consecutive even-number is 296 then numbers are
   a) 4,6
   b) 5,9
   c) 2,8
   d) 7,9
   Answer: B

10. The two consecutive numbers whose product is 132 are
    a) 11,12
    b) 5,6
    c) 8,4
    d) 3,8
    Answer: B

11. The domain of an infinite sequence is :
    a) N
    b) C
    c) R
    d) W
    Answer: A

12. If the numbers 1,4 and 3 are subtracted from three consecutive terms of an A.P the resulting numbers are in G.P, if their sum is 21 then the numbers are
    a) 2,5,12
    b) 2,7,12
    c) 3,5,12
    d) 3,5,7
    Answer: B

13. The sample space of tossing a coin twice
    a) {HHH,TT,HT,TH}
    b) {HH , TT ,H,TH}
    c) {HH,T,HT,TT}
    d) {HH,HT,TH,TT}
    Answer: D

14. How many 5-digit multiples of 5 can be formed from the digit 2,3,5,7,9 when no digit is repeated ?
    a) 20
    b) 24
    c) 40
    d) 120

Answer: B

15. If is a positive integer and a and b are constants then, a +(a+d) +(a+2d) +. . .[a+ (n-1) d ] =
    a) a(n-1)d
    b) n/2[a+(n-1)d]
    c) n/2[2a+(n-1)d]
    d) none
       Answer: C

16. 1/3 rotation (Clockwise) =_____ degree.
    a) 120
    b) -120
    c) 180
    d) -180
       Answer: B

17. A radian is the measures of the central angle of an arc of a circle whose length is equal to the
    a) half of the radius
    b) diameter of circle
    c) radius of the circle
    d) none
       Answer: C

18. The trigonometric ratios of -2430 is same as of
    a) 45
    b) 90
    c) 180
    d) 340
       Answer: B

19. The domain of cosx is
    a) R
    b) R-0.5
    c) R-1
    d) W
       Answer: A

20. To draw the graph of trigonometric function, measures of the angles are taken along
    a) x – axis
    b) y – axis
    c) origin
    d) none
       Answer: A

21. Angle below the surface line is called
    a) Angle of depression
    b) Angle of Elevation
    c) acute angle
    d) Obtuse angle

Answer: A

22. A Triangle has _____ important elements.
    a) 3
    b) 4
    c) 5
    d) 6
       Answer: D

23. Sum of opposite angles of a cyclic quadrilateral is
    a) 90
    b) 180
    c) 270
    d) 360
       Answer: D

24. The inverse principal Sine function
    a) Exists
    b) does not exist
    c) +ive
    d) –ive
       Answer: A

25. The horizontal line between y = -1 and y = 1 intersects the graph of y = tan x ...... times
    a) One
    b) Two
    c) Three
    d) Infinite
       Answer: D

26. The A.M between x-3 and x+5 ;
    a) 1-x
    b) 1+x
    c) 2x-1
    d) 3x-1
       Answer: A

27. The sum of the terms of the series -9 -6 - 3 + 0+ . . .amount to 66
    a) 4
    b) 9
    c) 11
    d) 15
       Answer: C

28. The 11 term of the sequences 1+i ,2,2(1-i),. . .
    a) 32(1+i)
    b) 32(1-i)
    c) 16(1-i)
    d) 16(1+i)

Answer: C

29. A sequence in which any term minus it's immediate previous term gives a constant is called
a) Geometric sequence
b) Arithmetic sequence
c) Harmonic sequence
d) Complete sequence
   Answer: B

30. A single cholera bacterium produces two complete bacteria in 1/2 hours. If we start with a colony of A bacteria ,how many bacteria will we have in 'n' hour
a) $A2^{2n}$
b) $A2^{-2n}$
c) 2n
d) -2n
   Answer: A

31. If diagonal entries of a matrix are same, then it is?
a) Diagonal matrix
b) Scalar matrix
c) Identity matrix
d) Square matrix
   Answer: B

32. If all diagonal entries of a matrix are 1, then it is?
a) Scalar matrix
b) Identity matrix
c) Unit matrix
d) Both b & c
   Answer: D

33. If all entries of a matrix are zero then it is?
a) Scalar matrix
b) Null matrix
c) Unit matrix
d) Square matrix
   Answer: B

34. A matrix obtained by changing the rows into column is called?
a) Transpose matrix
b) Symmetric matrix
c) Null matrix
d) Unit matrix
   Answer: A

35. If rows and columns of matrix are not same, then it is?
a) Square matrix
b) Polygon matrix
c) Rectangular matrix

d) Unit matrix

Answer: C

36. If a matrix has only one row, then it is?

a) Column matrix

b) Row matrix

c) Row & column matrix

d) None of these

Answer: A

37. If you changes rows into columns of a matrix, it becomes?

a) Singular matrix

b) Non-singular matrix

c) Unit matrix

d) Transpose matrix

Answer: D

38. If you see a matrix having entries zero is called?

a) Null matrix

b) Scalar matrix

c) Unit matrix

d) Diagonal matrix

Answer: A

39. Equations solved by algebraic formula are called?

a) Algebraic equations

b) Matrix

c) Geometry

d) Binomial theorem

Answer: A

40. If a matrix has one entry only and that is zero, then matrix will be

a) Null matrix

b) Singular matrix

c) Scalar matrix

d) Both a & b

Answer: D

41. If a matrix has 10 rows & 01 column, then it is?

a) Singular matrix

b) Column matrix

c) Rectangular matrix

d) Both b & c

Answer: D

42. If a matrix has order 2-by-2, then it is

a) Square matrix

b) Rectangular matric

c) Unit matrix

d) None of these

Answer: A

43. Conjugate can be obtained by changing the sign of?
    a) Real part
    b) Imaginary part
    c) Both a & b
    d) None of these

    Answer: B

44. Can factorization method be used to solve an equation?
    a) Yes
    b) No
    c) May be
    d) None of these

    Answer: A

45. The sum of the squares of two digits of a positive integral number is 65 and the number is 9 times the sum of its digits. Guess the number?
    a) 61
    b) 81
    c) 71
    d) 78

    Answer: B

46. Guess two integers whose difference is 4 and whose squares differ by 72?
    a) 9, 11
    b) 11, 7
    c) 9, 8
    d) 2,7

    Answer: B

47. Point (-1,4) lies in the quadrant
    a) I
    b) II
    c) III
    d) IV

    Answer: B

48. The relation {(1,2), (2,3), (3,3), (3,4)} is
    a) Onto function
    b) Into function
    c) Not a function
    d) One-one function

    Answer: C

49. For two triangles, if two angles and the included side of one triangle are equal to two angles and the included side of another triangle. Then the congruency rule is:
a) SSS

b) ASA
c) SAS
d) None of these
Answer: B

50. If E and F are the midpoints of equal sides AB and AC of a triangle ABC. Then:
a) BF=AC
b) BF=AF
c) CE=AB
d) BF=CE
Answer: D

51. ABC is an isosceles triangle in which altitudes BE and CF are drawn to equal sides AC and AB, respectively. Then:
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56. If Δ ABC ≅ Δ PQR, then which of the following is not true?
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d) AB=PQ
   Answer: B

57. Guess the next term 7,14,21,28,…?
   a) 35
   b) 42
   c) 49
   d) 56
      Answer (A)

58. Guess the next term 45, 33, 60, 44,75,…?
   a) 90
   b) 55
   c) 50
   d) 45
      Answer (B)

59. The probability of equally likely events is?
   a) Equal
   b) Unequal
   c) Zero
   d) One
      Answer ( A)

60. Find the next term 95, 84, 73?
   a) 58
   b) 62
   c) 106
   d) 108
      Answer (B)