



INTERNATIONAL DELHI PUBLIC SCHOOLS

ADMISSION TEST

GRADE - I

Time: 45 Minutes

Marks: 30

SET - B

GENERAL MATHEMATICS (Q1-10)

1. What comes next? 1, 3, 5, __

- A) 6 B) 7 C) 8 D) 9

2. $8 + 6 =$

- A) 12 B) 13 C) 14 D) 15

3. Which number is smallest?

- A) 21 B) 14 C) 18 D) 25

4. How many sides does a triangle have?

- A) 2 B) 3 C) 4 D) 5

5. $15 - 7 =$

- A) 6 B) 7 C) 8 D) 9

6. Which is an odd number?

- A) 10 B) 12 C) 15 D) 14

7. Half of 10 is:

- A) 3 B) 4 C) 5 D) 6

8. Which number comes after 39?

- A) 38 B) 40 C) 41 D) 37

9. $4 \times 2 =$

- A) 6 B) 8 C) 10 D) 12

10. How many ones are there in 7?

- A) 5 B) 6 C) 7 D) 8

GENERAL SCIENCE (Q11-20)

11. Which animal meows?

- A) Dog B) Cow C) Cat D) Goat

12. We get heat and light from:

- A) Moon B) Star C) Sun D) Fire

13. Which is a non-living thing?

- A) Plant B) Bird C) Stone D) Dog

14. Which organ helps us see?

- A) Ear B) Eye C) Nose D) Tongue

15. Colour of milk is:
A) Blue B) White C) Yellow D) Green
16. Which season is very hot?
A) Winter B) Rainy C) Summer D) Spring
17. Which part of plant has leaves?
A) Root B) Flower C) Stem D) Fruit
18. We breathe in:
A) Smoke B) Water C) Air D) Food
19. Which animal lives in water?
A) Cow B) Dog C) Fish D) Goat
20. Humans have ___ ears.
A) One B) Two C) Three D) Four
- GENERAL ENGLISH (Q21-30)**
21. He ___ a toy.
A) have B) has C) had D) having
22. Opposite of big is:
A) Tall B) Heavy C) Small D) Long
23. Which is a naming word?
A) Run B) Jump C) Girl D) Fast
24. Correct spelling:
A) Hous B) House C) Houze D) Howse
25. The baby ___ milk.
A) drink B) drinks C) drinking D) drank
26. Plural of pen is:
A) Pens B) Penes C) Pen D) Pen's
27. Choose the article: ___ umbrella
A) A B) An C) The D) No article
28. Which is an action word?
A) Run B) Blue C) Sweet D) Tall
29. Synonym of happy:
A) Sad B) Cry C) Glad D) Angry
30. A sentence starts with a:
A) small letter B) capital letter C) number D) comma



INTERNATIONAL DELHI PUBLIC SCHOOLS

ADMISSION TEST

GRADE - II
SET-B

Time: 45 Minutes

Marks: 30

GENERAL MATHEMATICS (Q1-10)

1. $36 \div 6 =$

- A) 5 B) 6 C) 7 D) 8

2. Which number is smallest?

- A) 145 B) 132 C) 158 D) 167

3. $9 \times 7 =$

- A) 56 B) 63 C) 72 D) 49

4. Place value of 4 in 342 is:

- A) 4 B) 40 C) 400 D) 42

5. $80 - 35 =$

- A) 45 B) 55 C) 65 D) 35

6. How many days are there in a week?

- A) 5 B) 6 C) 7 D) 8

7. Which is an even number?

- A) 21 B) 35 C) 42 D) 57

8. $\frac{1}{4}$ of 20 is:

- A) 4 B) 5 C) 6 D) 8

9. Which shape has four equal sides?

- A) Rectangle B) Triangle C) Square D) Circle

10. $70 + 20 =$

- A) 80 B) 85 C) 90 D) 100

GENERAL SCIENCE (Q11-20)

11. Which gas is needed for breathing?

- A) Oxygen B) Nitrogen C) Carbon dioxide D) Hydrogen

12. Which organ helps us breathe?

- A) Heart B) Lungs C) Brain D) Stomach

13. Which is a source of light?

- A) Moon B) Sun C) Water D) Soil

14. Animals that eat both plants and animals are called:
A) Herbivores B) Carnivores C) Omnivores D) Insectivores
15. Which object sinks in water?
A) Wood B) Leaf C) Plastic D) Stone
16. Which sense organ helps us smell?
A) Eye B) Ear C) Nose D) Tongue
17. Which is a natural thing?
A) Table B) Chair C) Mountain D) Pen
18. Which season is cold?
A) Summer B) Rainy C) Winter D) Spring
19. We need water to:
A) Read B) Live C) Write D) Paint
20. Which animal is kept at home?
A) Lion B) Tiger C) Dog D) Leopard
- GENERAL ENGLISH (Q21-30)**
21. Choose the correct sentence:
A) She are singing B) She is singing C) She am singing D) She be singing
22. Opposite of early is:
A) Soon B) Late C) Fast D) Quick
23. Fill in the blank: He ___ his homework daily.
A) do B) did C) does D) doing
24. Which is a pronoun?
A) School B) Teacher C) They D) Book
25. Correct spelling:
A) Govarnment B) Goverment C) Government D) Govermant
26. Plural of mouse is:
A) Mouses B) Mouse C) Mice D) Mousies
27. Choose the preposition: The ball is ___ the box.
A) on B) in C) at D) by
28. Synonym of small:
A) Big B) Tiny C) Tall D) Heavy
29. Which is an adjective?
A) Run B) Eat C) Happy D) Jump
30. Full stop is used at the end of a:
A) Question B) Exclamation C) Sentence D) Word



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE - III
SET-B

Time: 45 Minutes

Marks: 30

MATHEMATICS (Q1-10)

GENERAL SCIENCE (Q11-20)

11. Which organ helps in breathing?
A) Heart B) Lungs C) Brain D) Kidney

12. Air contains mainly:
A) Oxygen B) Nitrogen C) Carbon dioxide D) Hydrogen

13. Which part of plant absorbs water?
A) Stem B) Leaf C) Root D) Flower

14. Animals that eat only plants are called:
A) Carnivores B) Omnivores C) Herbivores D) Insectivores
15. Which is a source of heat?
A) Ice B) Sun C) Moon D) Wind
16. Which state of matter can flow?
A) Solid B) Liquid C) Stone D) Wood
17. Which sense organ helps us see?
A) Ear B) Nose C) Eye D) Skin
18. Water boils at:
A) 0°C B) 50°C C) 100°C D) 150°C
19. Which material is used to make wires?
A) Wood B) Plastic C) Iron D) Rubber
20. Which planet is known as the Red Planet?
A) Earth B) Venus C) Mars D) Jupiter

GENERAL ENGLISH (Q21-30)

21. Choose the correct sentence:
A) She play outside B) She plays outside C) She playing outside D) She played outside
22. Synonym of brave:
A) Coward B) Strong C) Fearless D) Weak
23. Antonym of loud:
A) Soft B) Noisy C) Strong D) Fast
24. Identify the adjective: It is a beautiful flower.
A) It B) Is C) Beautiful D) Flower
25. Fill in the blank: We ___ our work yesterday.
A) do B) did C) does D) doing
26. Correct spelling:
A) Neccessary B) Necessary C) Necessary D) Neccesary
27. One-word substitute: A person who writes books
A) Painter B) Author C) Singer D) Driver
28. Plural of child is:
A) Childs B) Child C) Children D) Childe
29. Choose the correct article: ___ honest man
A) A B) An C) The D) No article
30. Punctuation used at the end of a question:
A) . B) , C) ! D) ?



INTERNATIONAL DELHI PUBLIC SCHOOLS

ADMISSION TEST

GRADE - IV
SET-B

Time: 45 Minutes

Marks: 30

MATHEMATICS (Q1-10)

1. LCM of 6 and 8 is:
A) 12 B) 24 C) 36 D) 48
2. $\frac{2}{3}$ of 150 =
A) 90 B) 100 C) 120 D) 80
3. Which number is a multiple of both 5 and 10?
A) 25 B) 35 C) 40 D) 45
4. $3,275 + 725 =$
A) 3,900 B) 4,000 C) 4,100 D) 4,200
5. Area of a rectangle with length 8 cm and breadth 5 cm is:
A) 26 B) 30 C) 40 D) 45
6. Roman numeral of 90 is:
A) LXXXX B) XC C) IC D) XL
7. Which fraction is equivalent to $\frac{3}{4}$?
A) $\frac{6}{8}$ B) $\frac{9}{16}$ C) $\frac{12}{20}$ D) $\frac{15}{24}$
8. 2 kg = __ grams
A) 1000 B) 1500 C) 2000 D) 2500
9. Average of 10, 20, 30 is:
A) 15 B) 18 C) 20 D) 25
10. Simplify: $84 \div (7 \times 2)$
A) 4 B) 5 C) 6 D) 7

GENERAL SCIENCE (Q11-20)

11. Which system transports blood in the body?
A) Nervous B) Digestive C) Circulatory D) Respiratory
12. The process of breathing in is called:
A) Exhalation B) Respiration C) Inhalation D) Transpiration
13. Which soil is best for growing crops?
A) Clay B) Sandy C) Loamy D) Rocky

14. Which metal is attracted by a magnet?
A) Copper B) Iron C) Aluminum D) Silver
15. Which planet is known as the Red Planet?
A) Venus B) Earth C) Mars D) Jupiter
16. Which organ helps in filtering blood?
A) Heart B) Lungs C) Liver D) Kidney
17. Which is a renewable source of energy?
A) Coal B) Petrol C) Wind D) Diesel
18. Plants lose water through:
A) Roots B) Leaves C) Stem D) Flowers
19. Which gas is needed for burning?
A) Nitrogen B) Oxygen C) Carbon dioxide D) Hydrogen
20. Sound travels fastest through:
A) Air B) Water C) Solids D) Vacuum

GENERAL ENGLISH (Q21-30)

21. Choose the correct tense: They __ playing football.
A) is B) was C) are D) am
22. Antonym of arrive:
A) Reach B) Come C) Depart D) Enter
23. One-word substitute: A place where sick people are treated
A) School B) Hospital C) Office D) Library
24. Identify the adjective: She wore a beautiful dress.
A) She B) Wore C) Beautiful D) Dress
25. Correct sentence:
A) He don't like apples B) He doesn't like apples C) He didn't likes apples D) He not like apples
26. Plural of crisis is:
A) Crisises B) Crisis C) Crises D) Cris
27. Choose the correct preposition: The bird flew __ the tree.
A) on B) over C) in D) under
28. Synonym of brave:
A) Coward B) Fearless C) Weak D) Lazy
29. Correct spelling:
A) Occassion B) Occasion C) Ocassion D) Ocasian
30. Idiom: A piece of cake means:
A) Very easy B) Very hard C) Very sweet D) Very big



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE - V

Time: 45 Minutes

Marks: 30

MATHEMATICS (Q1-10)

GENERAL SCIENCE (Q11-20)

11. Which organ controls voluntary actions?
A) Heart B) Brain C) Lungs D) Kidney

12. Which gas is released during respiration?
A) Oxygen B) Nitrogen C) Hydrogen D) Carbon dioxide

13. Which soil is best for growing cotton?
A) Sandy B) Loamy C) Clayey D) Black

14. Which force helps us walk?
A) Friction B) Gravity C) Magnetic D) Muscular
15. Which part of the eye forms image?
A) Iris B) Lens C) Retina D) Cornea
16. Which vitamin helps in strong bones?
A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D
17. Which is a renewable source of energy?
A) Coal B) Petroleum C) Wind D) Diesel
18. Which process converts solid into liquid?
A) Freezing B) Condensation C) Evaporation D) Melting
19. Which planet is known as the Red Planet?
A) Mars B) Venus C) Earth D) Jupiter
20. Sound travels through:
A) Solids only B) Liquids only C) Gases only D) Solids, liquids and gases

GENERAL ENGLISH (Q21-30)

21. Choose the correct sentence:
A) He have finished work B) He has finished work
C) He finished work has D) He finishing work
22. Synonym of honest:
A) Truthful B) Clever C) Lazy D) Angry
23. Antonym of victory:
A) Success B) Win C) Defeat D) Gain
24. Identify the adjective: It was a noisy street.
A) It B) Was C) Noisy D) Street
25. One-word substitute: A person who treats sick people
A) Teacher B) Doctor C) Nurse D) Driver
26. Correct spelling:
A) Accross B) Aross C) Across D) Acros
27. Choose the correct preposition: He is fond __ music.
A) on B) of C) for D) with
28. Plural of basis is:
A) Basis B) Basises C) Bases D) Basi
29. Idiom: A blessing in disguise means:
A) Hidden danger B) Unexpected good C) Bad luck D) False hope
30. Choose the correct conjunction: I wanted to go __ it was raining.
A) and B) but C) so D) that



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE - VI SET-B

Time: 45 Minutes

Marks: 30

MATHEMATICS (Q1-10)

1. HCF of 45 and 60 is:

- A) 5 B) 10 C) 15 D) 30

2. Simplify: $3^2 \times 4^3 =$

- A) 144 B) 192 C) 288 D) 576

3. Which is a prime number?

- A) 21 B) 27 C) 29 D) 35

4. Value of $12 - \{5 + (3 - 1)\} =$

- A) 3 B) 4 C) 5 D) 6

5. Ratio of 30 minutes to 2 hours is:

- A) 1:2 B) 1:3 C) 1:4 D) 3:4

6. Perimeter of a rectangle is 40 cm. If length is 12 cm, breadth is:

- A) 6 B) 8 C) 10 D) 16

7. Decimal of $5/8$ is:

- A) 0.5 B) 0.625 C) 0.75 D) 0.875

8. Which number is divisible by both 3 and 8?

- A) 38 B) 56 C) 64 D) 72

9. Mean of first 20 natural numbers is:

- A) 9.5 B) 10 C) 10.5 D) 11

10. Roman numeral of 400 is:

- A) CCCC B) CD C) DC D) XD

SCIENCE (Q11-20)

11. Which tissue connects bones to bones?

- A) Tendon B) Ligament C) Muscle D) Cartilage

12. Which blood cells help in clotting?

- A) RBC B) WBC C) Platelets D) Plasma

13. Which mirror is used in solar cooker?

- A) Plane B) Convex C) Concave D) Cylindrical

14. Which substance is soluble in water?

- A) Sand B) Chalk C) Salt D) Oil

15. Separation by filtration is used to separate:

- A) Salt and water B) Sand and water C) Sugar and water D) Oil and water

16. Which gas supports burning?

- A) Nitrogen B) Oxygen C) Carbon dioxide D) Hydrogen

17. Which organ controls balance in the body?

- A) Cerebrum B) Cerebellum C) Medulla D) Spinal cord

18. Which force causes objects to fall to the ground?

- A) Magnetic B) Muscular C) Gravitational D) Friction

19. Which layer of atmosphere protects us from harmful rays?

- A) Troposphere B) Stratosphere C) Mesosphere D) Ionosphere

20. Deficiency of which vitamin causes night blindness?

- A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D

ENGLISH (Q21-30)

21. Choose the correct sentence:

- A) Everyone have done their work B) Everyone has done their work

C) Everyone have did their work D) Everyone done their work

22. Synonym of ancient:

- A) Old B) Modern C) New D) Recent

23. Antonym of generous:

- A) Kind B) Helpful C) Mean D) Brave

24. Identify the noun phrase: The red ball rolled away.

- A) The red ball B) Rolled away C) Away D) Ball

25. One-word substitute: One who looks after sick people

- A) Doctor B) Nurse C) Attendant D) Caretaker

26. Correct spelling:

- A) Priviledge B) Privilage C) Privilege D) Privilage

27. Change into passive voice: She wrote a letter.

- A) A letter is written B) A letter was written

- C) A letter has written D) A letter had written

28. Idiom: Burn the midnight oil means:

- A) Waste fuel B) Sleep early C) Study late at night D) Work carelessly

29. Choose the correct preposition: He is fond __ music.

- A) for B) on C) of D) with

30. Indirect speech: She said, "I will come tomorrow."

- A) She said that she will come tomorrow B) She said that she would come the next day

- C) She said she comes tomorrow D) She said that she came tomorrow



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE - VII

Time: 45 Minutes

Marks: 30

MATHEMATICS (Q1-10)

1. Simplify: $5^2 + 3^3$
A) 34 B) 42 C) 52 D) 64

2. HCF of 36 and 60 is:
A) 6 B) 12 C) 18 D) 24

3. Simplify: $(4/7) \times (21/8)$
A) $3/2$ B) $2/3$ C) $4/3$ D) $7/6$

4. The ratio 5 : 7 is equivalent to:
A) 10 : 14 B) 15 : 20 C) 20 : 25 D) 25 : 30

5. If the perimeter of a rectangle is 50 cm and length is 15 cm, breadth is:
A) 5 B) 10 C) 15 D) 20

6. Solve: $4x + 7 = 27$
A) 4 B) 5 C) 6 D) 7

7. Mean of 8, 12, 16, 20 is:
A) 12 B) 14 C) 15 D) 16

8. Convert 0.6 into fraction:
A) $3/5$ B) $6/10$ C) $2/5$ D) $4/5$

9. Which is an irrational number?
A) 0.75 B) $3/4$ C) $\sqrt{3}$ D) 1.25

10. Roman numeral of 900 is:
A) CM B) DM C) CD D) DCCCC

SCIENCE (Q11-20)

11. The unit of speed is:
A) m/s B) m² C) s/m D) km

12. Which acid is present in curd?
A) Acetic B) Citric C) Lactic D) Formic

13. The fusion of male and female gametes is called:
A) Pollination B) Fertilization C) Germination D) Reproduction

14. Which type of respiration needs oxygen?
A) Anaerobic B) Aerobic C) Both D) None

15. Which metal is least reactive?
A) Sodium B) Gold C) Copper D) Potassium
16. Blood vessels that carry blood to the heart are:
A) Arteries B) Veins C) Capillaries D) Nerves
17. Which mirror is used in torch light?
A) Plane B) Convex C) Concave D) Cylindrical
18. Which gas is used in respiration?
A) Oxygen B) Nitrogen C) Hydrogen D) Carbon dioxide
19. Which vitamin helps in clotting of blood?
A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin K
20. Soil best suited for paddy crop is:
A) Sandy B) Loamy C) Clayey D) Black

ENGLISH (Q21-30)

21. Choose the correct sentence:
A) Neither of the girls are late B) Neither of the girls is late
C) Neither girls are late D) Neither girls is late
22. Synonym of cautious:
A) Careless B) Alert C) Lazy D) Weak
23. Antonym of visible:
A) Clear B) Seen C) Invisible D) Bright
24. Identify the adjective clause: This is the book that I lost.
A) This is the book B) That I lost C) The book D) I lost
25. One-word substitute: One who writes plays
A) Poet B) Novelist C) Playwright D) Editor
26. Correct spelling:
A) Separate B) Seperate C) Separete D) Seprate
27. Change into passive voice: They are painting the house.
A) The house is painted B) The house was painted
C) The house is being painted D) The house has painted
28. Idiom: At the eleventh hour means:
A) Early B) Very late C) At noon D) At night
29. Choose the correct preposition: She is afraid ___ snakes.
A) from B) with C) of D) by
30. Reported speech: He said, "I am tired."
A) He said that he is tired B) He said that he was tired
C) He said he tired D) He said that I was tired



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE - VIII

SET-B

Time: 45 Minutes

Marks: 30

MATHEMATICS (Q1-10)

SCIENCE (Q11-20)

11. The SI unit of pressure is:
A) Joule B) Newton C) Pascal D) Watt

12. Which metal is used in making electric wires?
A) Iron B) Aluminium C) Copper D) Zinc

13. The process of conversion of solid directly into gas is called:
A) Sublimation B) Condensation C) Evaporation D) Freezing

14. Which part of the brain controls thinking?
A) Cerebellum B) Medulla C) Cerebrum D) Spinal cord

15. The pH value of acidic solution is:
A) Less than 7 B) Equal to 7 C) More than 7 D) Equal to 14
16. Which gas is essential for combustion?
A) Nitrogen B) Oxygen C) Carbon dioxide D) Hydrogen
17. Which organ helps in excretion?
A) Heart B) Lungs C) Kidney D) Liver
18. The unit of power is:
A) Joule B) Newton C) Watt D) Pascal
19. Which planet is known as the Red Planet?
A) Earth B) Venus C) Mars D) Jupiter
20. Deficiency of which vitamin causes rickets?
A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D

ENGLISH (Q21-30)

21. Choose the correct sentence:
A) None of the students are absent B) None of the students is absent
C) None students are absent D) None students is absent
22. Synonym of immense:
A) Small B) Huge C) Thin D) Narrow
23. Antonym of cautious:
A) Careful B) Alert C) Reckless D) Watchful
24. Identify the adjective clause: The man who called you is my uncle.
A) The man B) Who called you C) Is my uncle D) Called you
25. One-word substitute: One who compiles a dictionary
A) Author B) Editor C) Lexicographer D) Linguist
26. Correct spelling:
A) Independant B) Independent C) Independant D) Independint
27. Change into passive voice: They are repairing the road.
A) The road is repaired B) The road was repaired
C) The road is being repaired D) The road has repaired
28. Idiom: Hit the nail on the head means:
A) Miss the point B) Say exactly right C) Hit something D) Be careless
29. Choose the correct preposition: She is afraid ___ darkness.
A) with B) of C) from D) for
30. Reported speech: She said, "I have completed my work."
A) She said she has completed her work B) She said that she had completed her work
C) She said she completed her work D) She said that I had completed my work



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE - IX

Time: 45 Minutes

Marks: 30

MATHEMATICS (Q1-10)

SCIENCE (Q11-20)

11. The SI unit of work is:
A) Joule B) Newton C) Pascal D) Watt

12. Which law states that current is directly proportional to voltage?
A) Newton's law B) Boyle's law C) Ohm's law D) Hooke's law

13. Which gas is released when magnesium burns in air?
A) Oxygen B) Hydrogen C) Carbon dioxide D) Magnesium oxide

14. The functional unit of the nervous system is:
A) Nephron B) Neuron C) Axon D) Dendrite

15. Which tissue connects muscles to bones?
A) Ligament B) Tendon C) Cartilage D) Muscle
16. The pH value of an acidic solution is:
A) More than 7 B) Equal to 7 C) Less than 7 D) Equal to 14
17. Which part of the brain controls balance?
A) Cerebrum B) Cerebellum C) Medulla D) Spinal cord
18. Which metal is least reactive?
A) Sodium B) Potassium C) Iron D) Gold
19. The process of conversion of gas into liquid is called:
A) Evaporation B) Condensation C) Sublimation D) Freezing
20. Deficiency of which vitamin causes scurvy?
A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D

ENGLISH (Q21-30)

21. Choose the correct sentence:
A) She don't like coffee B) She doesn't like coffee
C) She didn't likes coffee D) She not like coffee
22. Synonym of diligent:
A) Lazy B) Careless C) Hardworking D) Slow
23. Antonym of flexible:
A) Soft B) Elastic C) Rigid D) Smooth
24. Identify the type of clause: This is the place where I was born.
A) Noun clause B) Adjective clause C) Adverb clause D) Main clause
25. One-word substitute: A person who writes poems
A) Novelist B) Editor C) Poet D) Playwright
26. Correct spelling:
A) Succesful B) Successfull C) Successful D) Sucessful
27. Change into passive voice: They have completed the project.
A) The project is completed B) The project was completed
C) The project has been completed D) The project had been completed
28. Idiom: Once in a blue moon means:
A) Always B) Often C) Rarely D) Never
29. Choose the correct preposition: He is interested __ science.
A) on B) for C) in D) with
30. Reported speech: She said, "I am busy."
A) She said that she is busy B) She said that she was busy
C) She said she busy D) She said that I was busy



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE - XI

SET-B

Time: 45 Minutes

Marks: 30

PHYSICS (Q1-10)

1. The SI unit of work is:

- A) Newton B) Joule C) Watt D) Pascal

2. A vector quantity has:

- A) Only magnitude B) Only direction C) Both magnitude and direction D) Neither

3. The slope of a velocity-time graph gives:

- A) Speed B) Distance C) Acceleration D) Momentum

4. The unit of momentum is:

- A) kg B) kg·m/s C) N D) J

5. Which law explains conservation of momentum?

- A) First law B) Second law C) Third law D) Gravitation law

6. A body in motion possesses:

- A) Potential energy B) Kinetic energy C) Heat energy D) Chemical energy

7. The SI unit of power is:

- A) Joule B) Newton C) Watt D) Pascal

8. Which quantity remains constant in uniform circular motion?

- A) Velocity B) Speed C) Acceleration D) Direction

9. Work done is maximum when force and displacement are:

- A) Perpendicular B) Parallel C) Opposite D) Inclined

10. The value of g on the Moon is about:

- A) 1.6 m/s^2 B) 3.2 m/s^2 C) 9.8 m/s^2 D) 0 m/s^2

CHEMISTRY (Q11-20)

11. The atomic mass of an element is the mass of:

- A) One mole B) One atom C) One molecule D) One ion

12. Which law states mass is conserved in a chemical reaction?

- A) Boyle's law B) Avogadro's law C) Law of conservation of mass D) Dalton's law

13. The SI unit of concentration is:
A) g/L B) mol/L C) mole D) litre
14. Which compound is used as washing soda?
A) NaHCO_3 B) $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$ C) CaCO_3 D) NaCl
15. Which bond is formed by transfer of electrons?
A) Covalent B) Ionic C) Hydrogen D) Metallic
16. The molar mass of water is:
A) 16 g/mol B) 17 g/mol C) 18 g/mol D) 20 g/mol
17. Which gas is evolved during electrolysis of water at cathode?
A) Oxygen B) Hydrogen C) Nitrogen D) Chlorine
18. pH value of an acidic solution is:
A) More than 7 B) Equal to 7 C) Less than 7 D) Equal to 14
19. Which metal is least reactive?
A) Sodium B) Potassium C) Iron D) Gold
20. The process of gain of electrons is called:
A) Oxidation B) Reduction C) Neutralization D) Displacement

MATHEMATICS (Q21-30)

21. If $f(x)=3x+2$, find $f(4)$:
A) 12 B) 13 C) 14 D) 15
22. Solve: $x^2 + 7x + 10 = 0$
A) 2,5 B) -2,-5 C) 1,10 D) -1,-10
23. The value of $\cos 60^\circ + \sin 30^\circ$ is:
A) 0 B) 1/2 C) 1 D) $\sqrt{3}$
24. Number of permutations of 4 objects taken all at a time is:
A) 12 B) 16 C) 24 D) 48
25. Slope of the line $y = -3x + 1$ is:
A) -1 B) -2 C) -3 D) 3
26. The value of $|-12|$ is:
A) -12 B) 0 C) 12 D) 24
27. If $\log_{10}1000 = x$, then $x =$:
A) 1 B) 2 C) 3 D) 10
28. Distance between (-1,-2) and (2,2) is:
A) 4 B) 5 C) $\sqrt{13}$ D) 6

29. The solution of $x^2 = 49$ is:

- A) 7 B) -7 C) ± 7 D) 0

30. Value of $\sin 90^\circ$ is:

- A) 0 B) $1/2$ C) $\sqrt{3}/2$ D) 1

BIOLOGY (Q21-30)

31. The study of cells is called:

- A) Zoology B) Botany C) Cytology D) Ecology

32. Which organelle controls cell activities?

- A) Ribosome B) Nucleus C) Mitochondria D) Lysosome

33. Which process releases energy from food?

- A) Photosynthesis B) Respiration C) Transpiration D) Excretion

34. Which blood group is universal donor?

- A) A B) B C) AB D) O

35. The functional unit of heredity is:

- A) Chromosome B) DNA C) Gene D) RNA

36. Which tissue transports food in plants?

- A) Xylem B) Phloem C) Cambium D) Cortex

37. Which part of brain controls thinking?

- A) Cerebellum B) Cerebrum C) Medulla D) Pons

38. Which vitamin deficiency causes scurvy?

- A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D

39. Which organ helps in excretion?

- A) Heart B) Liver C) Kidney D) Lungs

40. Which hormone controls growth?

- A) Thyroxine B) Insulin C) Growth hormone D) Adrenaline