



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE-I

SET-A

Time: 45 Minutes

Marks: 30

GENERAL MATHEMATICS (Q1-10)

1. What comes next? 2, 4, 6, __
A) 10 B) 9 C) 8 D) 7
2. Which number is greatest?
A) 39 B) 29 C) 91 D) 19
3. $15 - 7 =$
A) 9 B) 8 C) 7 D) 6
4. How many sides does a square have?
A) 6 B) 5 C) 4 D) 3
5. $5 + 9 =$
A) 15 B) 14 C) 13 D) 12
6. Which is an even number?
A) 12 B) 11 C) 9 D) 7
7. Half of 10 is:
A) 6 B) 5 C) 4 D) 2
8. Which number comes before 40?
A) 43 B) 42 C) 41 D) 38
9. $3 \times 4 =$
A) 14 B) 12 C) 10 D) 7
10. How many tens are there in 50?
A) 6 B) 5 C) 4 D) 3

GENERAL SCIENCE (Q11-20)

11. Which animal barks?
A) Goat B) Dog C) Cow D) Cat
12. The sun gives us:
A) Soil B) Light C) Food D) Water
13. Which is a living thing?
A) Stone B) Tree C) Book D) Chair
14. Which organ helps us hear?
A) Tongue B) Nose C) Ear D) Eye

15. Colour of the sky is:

- A) Yellow B) Red C) Blue D) Green

16. Which season is very cold?

- A) Spring B) Winter C) Rainy D) Summer

17. Which part of plant is under the soil?

- A) Stem B) Root C) Flower D) Leaf

18. We drink:

- A) Wood B) Sand C) Oil D) Milk

19. Which animal gives us milk?

- A) Horse B) Dog C) Cow D) Lion

20. Humans have ___ legs.

- A) Four B) Three C) Two D) One

GENERAL ENGLISH (Q21-30)

21. Choose the correct word:

I ___ a pen.

- A) having B) had C) have D) has

22. Opposite of *hot* is:

- A) Fast B) Big C) Cold D) Warm

23. Which is a naming word?

- A) Quickly B) Ball C) Jump D) Run

24. Correct spelling:

- A) Scholl B) Scool C) School D) Skool

25. Fill in the blank:

The cat ___ milk.

- A) drank B) drinking C) drinks D) drink

26. Plural of *boy* is:

- A) Boy B) Boies C) Boys D) Boyes

27. Choose the article: ___ apple

- A) No article B) The C) An D) A

28. Which is an action word?

- A) Tall B) Eat C) Red D) Happy

29. Synonym of *big*:

- A) Short B) Large C) Tiny D) Small

30. A sentence ends with:

- A) : B) . C) ; D) ,



INTERNATIONAL DELHI PUBLIC SCHOOLS

ADMISSION TEST

GRADE-II

SET-A

Time: 45 Minutes

Marks: 30

GENERAL MATHEMATICS (Q1-10)

1. $48 \div 6 =$
A) 9 B) 8 C) 7 D) 6
2. Which is the smallest?
A) 300 B) 150 C) 250 D) 205
3. $9 \times 8 =$
A) 90 B) 81 C) 72 D) 64
4. Place value of 5 in 352 is:
A) 52 B) 500 C) 50 D) 5
5. $100 - 47 =$
A) 73 B) 63 C) 53 D) 43
6. How many minutes in 1 hour?
A) 90 B) 60 C) 45 D) 30
7. Which is an odd number?
A) 60 B) 45 C) 32 D) 20
8. $\frac{1}{4}$ of 20 is:
A) 10 B) 6 C) 5 D) 4
9. Which shape has no corners?
A) Triangle B) Circle C) Rectangle D) Square
10. $70 + 30 =$
A) 120 B) 110 C) 100 D) 90

SCIENCE (Q11-20)

11. Which gas do plants release?
A) Hydrogen B) Carbon dioxide C) Nitrogen D) Oxygen
12. Which organ pumps blood?
A) Kidney B) Lungs C) Heart D) Brain
13. Which is a source of water?
A) Road B) Mountain C) River D) Desert
14. Animals that eat plants are called:
A) Insects B) Herbivores C) Omnivores D) Carnivores

15. Which object floats on water?

- A) Iron B) Wood C) Coin D) Stone

16. Which sense organ tastes food?

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

17. Which is a man-made thing?

- A) Mountain B) Chair C) River D) Tree

18. Which season has heavy rain?

- A) Spring B) Rainy C) Winter D) Summer

19. We need food to get:

- A) Sleep B) Water C) Energy D) Colour

20. Which is a domestic animal?

- A) Leopard B) Cow C) Lion D) Tiger

ENGLISH (Q21-30)

21. Choose correct sentence:

- A) She are playing B) She is playing
C) She am playing D) She be playing

22. Antonym of *happy*:

- A) Smile B) Sad C) Cheerful D) Glad

23. Fill in the blank:

He __ to school daily.

- A) gone B) going C) goes D) go

24. Which is a pronoun?

- A) Book B) He C) Teacher D) Ram

25. Correct spelling:

- A) Beautiful B) Beautifull
C) Beautifal D) Beutiful

26. Plural of *tooth*:

- A) Tooth B) Tooothes C) Teeth D) Toooths

27. Choose the preposition:

The cat is __ the table.

- A) by B) at C) in D) on

28. Synonym of *fast*:

- A) Weak B) Late C) Quick D) Slow

29. Which is an adjective?

- A) Jump B) Eat C) Soft D) Run

30. Question mark is used for:

- A) Exclamation B) Question C) Order D) Statement



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ADMISSION TEST

Time: 45 Minutes

GRADE-III

SET-A

Marks: 30

MATHEMATICS (Q1-10)

1. Place value of 6 in 6,742 is:
A) 6000 B) 600 C) 60 D) 6
2. $384 \div 6 =$
A) 84 B) 74 C) 64 D) 54
3. Which number is divisible by 3?
A) 502 B) 418 C) 225 D) 124
4. $7 \times 9 - 8 =$
A) 71 B) 63 C) 56 D) 55
5. Smallest 4-digit number is:
A) 1111 B) 1001 C) 1000 D) 999
6. Perimeter of a rectangle with sides 5 cm and 3 cm is:
A) 30 cm B) 16 cm C) 15 cm D) 8 cm
7. Which fraction is greater?
A) $1/2$ B) $3/8$ C) $2/5$ D) $1/4$
8. $450 + \underline{\quad} = 900$
A) 500 B) 450 C) 400 D) 350
9. How many minutes are there in 2 hours?
A) 140 B) 120 C) 110 D) 100
10. Pattern: 3, 6, 12, 24, __
A) 54 B) 48 C) 42 D) 36

SCIENCE (Q11-20)

11. Which organ helps in digestion?
A) Brain B) Lungs C) Stomach D) Heart
12. Air is a mixture of:
A) Metals B) Solids C) Liquids D) Gases
13. Which part of plant makes food?
A) Flower B) Leaf C) Stem D) Root

14. Animals that eat both plants and animals are called:

- A) Carnivores B) Herbivores
C) Insectivores D) Omnivores

15. Which is a source of energy?

- A) All of these B) Wind C) Sun D) Coal

16. Which state of matter has fixed shape and volume?

- A) Plasma B) Gas C) Liquid D) Solid

17. Which sense organ helps us balance?

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

18. Water changes into ice at:

- A) 100°C B) 50°C C) 10°C D) 0°C

19. Which material is attracted by a magnet?

- A) Glass B) Iron C) Wood D) Plastic

20. Which planet is closest to the Sun?

- A) Mars B) Mercury C) Earth D) Venus

ENGLISH (Q21-30)

21. Choose the correct sentence:

- A) He go to school daily B) He goes to school daily
C) He going to school daily D) He gone to school daily

22. Synonym of *intelligent*:

- A) Slow B) Lazy C) Weak D) Clever

23. Antonym of *early*:

- A) Quick B) Late C) Fast D) Soon

24. Identify the verb:

She **writes** neatly.

- A) None B) Neatly C) Writes D) She

25. Fill in the blank:

There __ five books on the table.

- A) has B) are C) was D) is

26. Correct spelling:

- A) Beautiful B) Beautifull
C) Beautifal D) Beutiful

27. One-word substitute: *A place where books are kept*

- A) Office B) Museum C) Library D) Laboratory

28. Plural of *leaf*:

- A) Leaf B) Leafes C) Leaves D) Leaffs

29. Choose the correct article:

__ hour

- A) No article B) The C) An D) A

30. Punctuation used to show excitement:

- A) , B) ! C) ? D) .



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE-IV

SET-A

Time: 45 Minutes

Marks: 30

MATHEMATICS (Q1-10)

1. LCM of 6 and 8 is:
A) 48 B) 36 C) 24 D) 12
 2. $\frac{3}{4}$ of 200 =
A) 160 B) 150 C) 140 D) 120
 3. Which number is a multiple of both 4 and 6?
A) 28 B) 24 C) 20 D) 18
 4. $2,345 + 1,655 =$
A) 4,200 B) 4,100 C) 4,000 D) 3,900
 5. Area of a square of side 7 cm is:
A) 56 B) 49 C) 21 D) 14
 6. Roman numeral of 40 is:
A) IL B) XV C) LX D) XL
 7. Which fraction is equivalent to $\frac{2}{3}$?
A) $\frac{10}{12}$ B) $\frac{8}{10}$ C) $\frac{6}{9}$ D) $\frac{4}{5}$
 8. 1 kg = ___ grams
A) 1500 B) 1000 C) 500 D) 100
 9. Average of 4, 6, 10 is:
A) 8 B) 7 C) 6 D) 5
 10. Simplify: $96 \div (8 \times 3)$
A) 6 B) 4 C) 3 D) 2

SCIENCE (Q11-20)

11. Which system controls body activities?
A) Respiratory B) Digestive
C) Circulatory D) Nervous

12. The process of breathing out is called:
A) Respiration B) Inhalation
C) Transpiration D) Exhalation

13. Which soil is best for farming?
A) Rocky B) Loamy C) Clay D) Sandy

14. Which metal is attracted by a magnet?
 A) Silver B) Iron C) Aluminium D) Copper
15. Which planet is known as the Blue Planet?
 A) Uranus B) Neptune C) Earth D) Mars
16. Which organ removes waste from blood?
 A) Heart B) Kidney C) Lungs D) Liver
17. Which is a renewable source of energy?
 A) Diesel B) Wind C) Petroleum D) Coal
18. Plants lose water through:
 A) Flowers B) Leaves C) Stem D) Roots
19. Which gas supports burning?
 A) Hydrogen B) Carbon dioxide C) Oxygen D) Nitrogen
20. Sound travels fastest through:
 A) Solids B) Vacuum C) Water D) Air

ENGLISH (Q21-30)

21. Choose the correct tense:
 She __ her homework already.
 A) doing B) has done C) did D) do
22. Antonym of *expand*:
 A) Spread B) Contract C) Grow D) Increase
23. One-word substitute: *One who tells stories*
 A) Editor B) Poet C) Narrator D) Author
24. Identify the adjective:
 It was a **dangerous** road.
 A) Road B) Dangerous C) Was D) It
25. Correct sentence:
 A) He did not knew the answer B) He does not know the answer
 C) He do not know the answer D) He not knows the answer
26. Plural of *analysis* is:
 A) Analysises B) Analysis C) Analys D) Analyses
27. Choose the correct preposition:
 The cat jumped __ the wall.
 A) under B) over C) on D) in
28. Synonym of *accurate*:
 A) Weak B) Rough C) Exact D) Wrong
29. Correct spelling:
 A) Necessary B) Neccessary C) Neccesary D) Necessay
30. Idiom: *Break the ice* means:
 A) Start talking B) Feel cold C) Stop conversation D) Make trouble



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE-V

Time: 45 Minutes

SET-A

Marks: 30

MATHEMATICS (Q1-10)

1. LCM of 12 and 18 is:
A) 72 B) 48 C) 36 D) 24
2. $5/8$ of 320 =
A) 240 B) 220 C) 200 D) 180
3. Which number is divisible by 9?
A) 6,218 B) 5,614 C) 4,572 D) 3,356
4. Simplify: $144 \div (12 \times 2)$
A) 12 B) 8 C) 6 D) 4
5. Perimeter of a rectangle with length 10 cm and breadth 6 cm is:
A) 36 cm B) 32 cm C) 30 cm D) 26 cm
6. Smallest prime number greater than 20 is:
A) 25 B) 23 C) 22 D) 21
7. Value of $3^2 + 4^2$ =
A) 13 B) 16 C) 49 D) 25
8. Convert 3 km 250 m into meters:
A) 3,750 B) 3,500 C) 3,250 D) 3,025
9. Which fraction is the largest?
A) $6/11$ B) $5/8$ C) $4/7$ D) $3/5$
10. Average of 12, 18, 30 is:
A) 24 B) 22 C) 20 D) 18

SCIENCE (Q11-20)

11. Which organ controls all body activities?
A) Liver B) Lungs C) Brain D) Heart
12. Which gas is used by plants during photosynthesis?
A) Hydrogen B) Carbon dioxide C) Nitrogen D) Oxygen
13. Which type of soil retains most water?
A) Rocky B) Clayey C) Loamy D) Sandy
14. Which force opposes motion?
A) Gravitational B) Magnetic
C) Muscular D) Friction

15. Which part of the eye controls light entry?
A) Cornea B) Lens C) Iris D) Retina
16. Which vitamin helps in blood clotting?
A) Vitamin B B) Vitamin A
C) Vitamin K D) Vitamin C
17. Which is a non-renewable resource?
A) Water B) Coal C) Sun D) Wind
18. Which process changes liquid into gas?
A) Melting B) Freezing
C) Condensation D) Evaporation
19. Which planet has maximum number of moons?
A) Venus B) Jupiter C) Mars D) Earth
20. Sound is produced due to:
A) Motion B) Vibrations C) Light D) Heat

ENGLISH (Q21-30)

21. Choose the correct sentence:
A) She has ate lunch
B) She has eaten lunch
C) She have eaten lunch
D) She eating lunch
22. Synonym of *courageous*:
A) Silent B) Lazy C) Weak D) Brave
23. Antonym of *ancient*:
A) Past B) Modern C) Historic D) Old
24. Identify the adverb:
He spoke **politely**.
A) None B) Politely C) Spoke D) He
25. One-word substitute: *A person who studies stars*
A) Astronomer B) Geologist C) Physicist D) Biologist
26. Correct spelling:
A) Government B) Goveernment C) Goverment D) Governmant
27. Choose the correct preposition:
She is interested __ music.
A) for B) at C) in D) on
28. Plural of *criterion* is:
A) Criteria B) Criterions C) Criterias D) Criterion
29. Idiom: *Hit the nail on the head* means:
A) Make a mistake B) Be very accurate C) Hit something hard D) Get angry
30. Choose the correct conjunction:
I was tired __ I continued working.
A) because B) so C) but D) or



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE-VI

SET-A

Time: 45 Minutes

Marks: 30

MATHEMATICS (Q1-10)

- HCF of 36 and 48 is:
A) 24 B) 18 C) 12 D) 6
 - Simplify: $2^3 \times 5^2$
A) 250 B) 200 C) 150 D) 100
 - Which is a composite number?
A) 21 B) 19 C) 17 D) 13
 - Value of $7 - \{3 + (2 - 1)\}$ =
A) 4 B) 3 C) 2 D) 1
 - Ratio of 45 minutes to 1 hour is:
A) 1:2 B) 5:4 C) 4:3 D) 3:4
 - Perimeter of a square is 32 cm. Side =
A) 9 B) 8 C) 7 D) 6
 - Decimal of $3/8$ is:
A) 0.75 B) 0.5 C) 0.375 D) 0.25
 - Which number is divisible by both 4 and 6?
A) 30 B) 24 C) 20 D) 18
 - Mean of first 10 natural numbers is:
A) 6 B) 5.5 C) 5 D) 4.5
 - Roman numeral of 90 is:
A) LXXXX B) IC C) XL D) XC

SCIENCE (Q11-20)

11. Blood is a type of:
A) System B) Organ C) Cell D) Tissue

12. Which component of blood carries oxygen?
A) Platelets B) RBC C) WBC D) Plasma

13. Which mirror is used as a rear-view mirror?
A) Cylindrical B) Convex C) Concave D) Plane

14. Which substance dissolves maximum salt?
A) Air B) Sand C) Water D) Oil

15. The process of separation using evaporation is used to get:

- A) Sand from water B) Salt from seawater
C) Iron from sand D) Oil from water

16. Which gas is responsible for rusting?

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

17. Which organ filters waste from blood?

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

18. Which force acts without contact?

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

19. Which layer of Earth is the hottest?

- A) Surface B) Core C) Mantle D) Crust

20. Which vitamin deficiency causes scurvy?

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

ENGLISH (Q21-30)

21. Choose the correct sentence:

- A) Neither of the boys are present B) Neither of the boys is present
C) Neither boys are present D) Neither boys is present

22. Synonym of *brief*:

- A) Late B) Slow C) Short D) Long

23. Antonym of *transparent*:

- A) Bright B) Thin C) Opaque D) Clear

24. Identify the phrase:

He ran **out of patience**.

- A) Noun phrase B) Verb phrase
C) Prepositional phrase D) Adverb phrase

25. One-word substitute: *One who cannot read or write*

- A) Illiterate B) Ignorant C) Foolish D) Unaware

26. Correct spelling:

- A) Ocassion B) Occasion C) Occassion D) Occasion

27. Change into passive voice:

They clean the room daily.

- A) The room is cleaned daily B) The room was cleaned daily
C) The room has cleaned daily D) The room is cleaning daily

28. Idiom: *Once in a blue moon* means:

- A) Frequently B) Daily C) Never D) Rarely

29. Choose the correct preposition:

He insisted paying the bill.

- A) at B) to C) for D) on

30. Indirect speech of:

- A) He said that he is ready B) He said that he was ready
C) He said he ready D) He said that I was ready



INTERNATIONAL DELHI PUBLIC SCHOOLS

ADMISSION TEST

GRADE-VII

Time: 45 Minutes

SET-A

Marks: 30

MATHEMATICS (01-10)

- If $x = -3$, find the value of $2x^2 + 3x - 1$
A) 20 B) 14 C) 10 D) 8
 - HCF of 54 and 72 is:
A) 27 B) 18 C) 9 D) 6
 - Simplify: $(3/5) \times (25/9)$
A) 25/15 B) 15/9 C) 5/3 D) 3/5
 - The ratio $2 : 3$ is equivalent to:
A) $10 : 12$ B) $8 : 10$ C) $6 : 9$ D) $4 : 5$
 - If the perimeter of a square is 40 cm, its area is
A) 400 B) 160 C) 144 D) 100
 - Solve: $7x - 5 = 30$
A) 6 B) 5 C) 4 D) 3
 - Mean of 5, 10, 15, 20 is:
A) 17.5 B) 15 C) 12.5 D) 10
 - Convert 0.375 into fraction:
A) $1/8$ B) $7/8$ C) $5/8$ D) $3/8$
 - Which is a rational number?
A) $\sqrt{5}$ B) 0.25 C) π D) $\sqrt{2}$
 - Roman numeral of 400 is:
A) XD B) CCCC C) DC D) CD

SCIENCE (Q11-20)

11. The speed of sound is fastest in:
A) Solids B) Vacuum C) Water D) Air

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

13. The process of fertilization occurs in:
A) Fallopian tube B) Ovary C) Cervix D) Uterus

14. Which type of respiration occurs in yeast?
A) Anaerobic B) Aerobic C) None D) Both

ENGLISH (Q21-30)

21. Choose the correct sentence:

A) Each of the boys have arrived B) Each of the boys has arrived
C) Each boys has arrived D) Each boys have arrived

22. Synonym of *reluctant*:

A) Happy B) Ready C) Unwilling D) Eager

23. Antonym of *transparent*:

A) Bright B) Opaque C) Visible D) Clear

24. Identify the clause:

I know **that he is honest.**

A) Noun clause B) Adjective clause
C) Adverb clause D) Principal clause

25. One-word substitute: *One who speaks two languages*

A) Bilingual B) Linguist C) Orator D) Translator

26. Correct spelling:

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

27. Change into passive voice:

A) The task is completed B) The task was completed by her
C) The task has completed D) The task had completed

28. Idiom: *Burn the midnight oil* means:

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

29. Choose correct preposition:

He is fond music.

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

30. Indirect speech:

He said, "I will help you."

A) He said that he will help me B) He said that he would help me
C) He said he help me D) He said he helps me



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE-VIII

Time: 45 Minutes

SET-A

Marks: 30

MATHEMATICS (Q1-10)

1. Solve: $3x + 7 = 25$
A) 7 B) 6 C) 5 D) 4
2. Value of $(-2)^3$ is:
A) 8 B) 6 C) -8 D) -6
3. Which is an irrational number?
A) -3 B) $\sqrt{7}$ C) 0.25 D) $5/7$
4. Simplify: $(a^2 \times a^3) \div a$
A) a^3 B) a^6 C) a^5 D) a^4
5. Find the cube of 12
A) 1,822 B) 1,512 C) 1,442 D) 1,728
6. Ratio of 1.5 m to 150 cm is:
A) 1:2 B) 3:2 C) 2:1 D) 1:1
7. If angles of a triangle are in ratio 2:3:4, the largest angle is:
A) 90° B) 80° C) 60° D) 40°
8. Square root of 324 is:
A) 24 B) 20 C) 18 D) 16
9. Mean of first 20 natural numbers is:
A) 11 B) 10.5 C) 10 D) 9.5
10. Roman numeral of 900 is:
A) XM B) CD C) DM D) CM

SCIENCE (Q11-20)

11. SI unit of pressure is:
A) Joule B) Newton C) Pascal D) Bar
12. Which hormone controls growth?
A) Insulin B) Thyroxine
C) Adrenaline D) Growth hormone
13. Rusting is an example of:
A) Physical change B) Chemical change C) Reversible change D) Periodic change

14. Which metal is used for galvanization?
A) Aluminium B) Zinc C) Copper D) Iron
15. The process of transfer of heat without medium is:
A) Convection B) Conduction C) Reflection D) Radiation
16. Which blood group is universal donor?
A) O B) AB C) B D) A
17. Which part of brain controls balance?
A) Cerebellum B) Cerebrum C) Pons D) Medulla
18. Which gas causes acid rain?
A) Sulphur dioxide B) Oxygen C) Hydrogen D) Nitrogen
19. Which lens is used to correct myopia?
A) Concave B) Convex C) Bifocal D) Cylindrical
20. The unit of electric power is:
A) Ohm B) Watt C) Volt D) Ampere

ENGLISH (Q21-30)

21. Choose correct sentence:
A) Scarcely had I arrived than it started raining
B) Scarcely had I arrived when it started raining
C) Scarcely I arrived when it started raining
D) Scarcely had arrived I when it started raining
22. Synonym of *abundant*:
A) Limited B) Rare C) Plentiful D) Scarce
23. Antonym of *hostile*:
A) Violent B) Cruel C) Angry D) Friendly
24. Identify the tense:
She **has been reading** for two hours.
A) Present perfect B) Present continuous
C) Present perfect continuous D) Past perfect
25. One-word substitute: *One who looks on the bright side*
A) Pessimist B) Optimist C) Idealist D) Realist
26. Correct spelling:
A) Acommodation B) Accomodation
C) Accommadation D) Accommodation
27. Change into passive voice:
They are repairing the road.
A) The road is being repaired B) The road was repaired
C) The road has repaired D) The road is repaired
28. Idiom: *Under the weather* means:
A) Very happy B) Feeling unwell C) Angry D) Excited

29. Choose correct preposition:

She insisted __ the truth.

30. Reported speech:

He said, "I have finished."

- A) He said he has finished B) He said that he had finished
C) He said he finished D) He said that I had finished



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE-IX

Time: 45 Minutes

SET-A

Marks: 30

MATHEMATICS (Q1-10)

- Find the value of $(a + b)^2 - (a - b)^2$
A) 0 B) $a^2 - b^2$ C) $4ab$ D) $2ab$
 - Zero of polynomial $3x - 9$ is:
A) -3 B) 3 C) 1 D) 0
 - If $x^2 = 16$, then $x =$
A) 8 B) ± 4 C) -4 D) 4
 - Rationalize: $1/\sqrt{5}$
A) $\sqrt{5}$ B) $\sqrt{5}/5$ C) $5\sqrt{5}$ D) $1/5$
 - Distance between (0,0) and (3,4) is:
A) 4 B) 7 C) 6 D) 5
 - Degree of polynomial $5x^4 - 3x + 7$ is:
A) 5 B) 4 C) 3 D) 2
 - Value of π (correct up to 2 decimals):
A) 3.18 B) 3.16 C) 3.14 D) 3.12
 - Mean of first 10 even numbers is:
A) 12 B) 11 C) 10 D) 9
 - Which is an irrational number?
A) -3 B) $5/8$ C) $\sqrt{2}$ D) 0.4
 - If perimeter of a square is 36 cm, area is:
A) 144 B) 100 C) 81 D) 64

SCIENCE (Q11-20)

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

12. The chemical formula of quick lime is:
A) CaCl_2 B) $\text{Ca}(\text{OH})_2$ C) CaO D) CaCO_3

13. Which law explains inertia?
A) Newton's First Law B) Newton's Second Law
C) Newton's Third Law D) Law of Gravitation

14. Functional unit of kidney is:
A) Nephron B) Neuron C) Axon D) Alveoli

15. Which tissue transports food in plants?
A) Phloem B) Xylem C) Cortex D) Cambium
16. Speed =
A) Distance × Time B) Distance ÷ Time
C) Time ÷ Distance D) Force ÷ Mass
17. Which gas is evolved during photosynthesis?
A) Nitrogen B) Carbon dioxide C) Hydrogen D) Oxygen
18. The process of rusting requires:
A) Water only B) Oxygen only
C) Both oxygen and water D) Carbon dioxide
19. Which mirror is used in solar cooker?
A) Convex B) Plane C) Cylindrical D) Concave
20. Unit of electric charge is:
A) Coulomb B) Ampere C) Ohm D) Volt

ENGLISH (Q21–30)

21. Choose the correct sentence:
A) No sooner did he arrive when the bell rang B) No sooner had he arrived than the bell rang
C) No sooner he arrived than the bell rang D) No sooner did he arrived than the bell rang
22. Synonym of *meticulous*:
A) Rough B) Lazy C) Detailed D) Careless
23. Antonym of *transient*:
A) Brief B) Temporary C) Short D) Permanent
24. Identify the figure of speech:
“The classroom was a zoo.”
A) Metaphor B) Simile C) Hyperbole D) Personification
25. One-word substitute: *One who studies earthquakes*
A) Seismologist B) Geologist C) Astronomer D) Meteorologist
26. Correct spelling:
A) Convenient B) Convinient C) Conviniant D) Conveniant
27. Change into passive voice:
They will announce the result.
A) The result will be announced B) The result is announced
C) The result was announced D) The result has announced
28. Idiom: *A blessing in disguise* means:
A) Hidden danger B) Unexpected good
C) Bad luck D) False hope
29. Choose correct preposition: He is confident ___ his success.
A) with B) of C) on D) for
30. Indirect speech: She said, “I am preparing for the exam.”
A) She said that she is preparing B) She said that she was preparing
C) She said she prepared D) She said that I was preparing



INTERNATIONAL DELHI PUBLIC SCHOOLS ADMISSION TEST

GRADE-XI

Time: 45 Minutes

SET-A

Marks: 30

PHYSICS (Q1-10)

1. The dimensional formula of force is:
A) MLT^{-1} B) ML^2T^{-2} C) MLT^{-2} D) M^2LT^{-2}
2. A body starts from rest and moves with uniform acceleration of 2 m/s^2 . Distance covered in 5 s is:
A) 20 m B) 25 m C) 30 m D) 50 m
3. The SI unit of impulse is:
A) Newton B) Newton-second C) Joule D) kg m/s^2
4. Which of the following is a vector quantity?
A) Speed B) Distance C) Displacement D) Mass
5. The slope of velocity-time graph represents:
A) Velocity B) Displacement C) Acceleration D) Momentum
6. The work done by a force is zero when:
A) Force is zero B) Displacement is zero
C) Force and displacement are perpendicular D) All of these
7. The unit of power is:
A) Joule B) Newton C) Watt D) Pascal
8. A car moving with constant speed on a circular path has:
A) Zero acceleration B) Constant acceleration
C) Changing acceleration D) No velocity
9. Which law gives the relation between force, mass, and acceleration?
A) Newton's First Law B) Newton's Second Law
C) Newton's Third Law D) Law of Gravitation
10. The quantity having magnitude but no direction is called:
A) Vector B) Scalar C) Tensor D) Momentum

CHEMISTRY (Q11-20)

11. Atomic number of an element is equal to number of:
A) Neutrons B) Protons C) Nucleons D) Protons + Neutrons
12. The SI unit of amount of substance is:
A) Gram B) Mole C) Kilogram D) Litre

13. Which quantum number determines the shape of an orbital?
 A) Principal B) Azimuthal C) Magnetic D) Spin
14. The pH value of a neutral solution is:
 A) 0 B) 7 C) 14 D) 10
15. Which bond is formed by sharing of electrons?
 A) Ionic B) Metallic C) Covalent D) Hydrogen
16. Avogadro's number is:
 A) 6.022×10^{23} B) 3.011×10^{23} C) 1.6×10^{-19} D) 9.1×10^{-31}
17. Which gas is known as laughing gas?
 A) NO_2 B) N_2O C) NH_3 D) CO
18. Which of the following is an intensive property?
 A) Mass B) Volume C) Density D) Number of moles
19. The oxidation state of oxygen in H_2O_2 is:
 A) -2 B) -1 C) 0 D) +1
20. The process of conversion of solid directly into gas is called:
 A) Condensation B) Evaporation C) Sublimation D) Diffusion

MATHEMATICS / BIOLOGY (Q21-25)

For PCM (Mathematics)

21. If $f(x) = 2x^2 + 3x - 1$, then $f(-1)$ is:
 A) -2 B) -4 C) 0 D) 4
22. The value of $\sin 30^\circ$ is:
 A) 0 B) 1 C) $1/2$ D) $\sqrt{3}/2$
23. If $A = \{1, 2, 3\}$, number of subsets of A is:
 A) 3 B) 6 C) 8 D) 9
24. The quadratic equation having equal roots has discriminant:
 A) > 0 B) < 0 C) $= 0$ D) $\neq 0$
25. The distance between points (1,2) and (4,6) is:
 A) 3 B) 4 C) 5 D) $\sqrt{25}$

FOR PCB (BIOLOGY 25-30)

26. The basic unit of life is:
 A) Tissue B) Cell C) Organ D) System
27. Which organelle is called the powerhouse of the cell?
 A) Ribosome B) Mitochondria
 C) Chloroplast D) Nucleus

28. Photosynthesis takes place in:

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

29. The functional unit of kidney is:

- A) Neuron
- B) Nephron
- C) Alveoli
- D) Axon

30. Which blood group is universal recipient?

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