2025 ANNUAL COMPETITION CLASS-IX

Time Allowed: 2 (Two) hours

INSTRUCTIONS:

This booklet contains 60 questions. Each question comprises four possible answers. Select ONLY ONE answer which you consider the best and mark it on the answer sheet. All questions carry equal marks.

Section A (English)

	<u> </u>		
1.	Choose the word that is most similar	r in meaning to "COMMENCE"	
	(A) FINISH	(B) START	
	(C) STOP	(D) DELAY	
2.	The antonym of the word TRUTHFUL is		
	(A) HONEST	(B) SINCERE	
	(C) FALSE	(D) ACCURATE	
3.	Change into passive voice: Who broke the window?		
	(A) By whom was the window broken?	(B) By whom is the window broken?	
	(C) By whom has the window been broken?	(D) By whom did the window be broken?	
4.	Convert the following direct sentence	e into an indirect sentence:	
	Direct: The doctor said to the patient	, "Stop smoking."	
	(A) The doctor told the patient to stop smoking.	(B) The doctor said to the patient that he should stop smoking.	
	(C) The doctor requested the patient to stop smoking.	(D) The doctor advised the patient to stop smoking.	
Fill	in the blanks with appropriate option	ns (Q 5-Q8)	
5.	He is interested learning new languages.		
	(A) on	(B) in	
	(C) about	(D) with	

6.	The accident happened the cor	ner of the street.
	(A) in	(B) on
	(C) by	(D) at
7.	He divided the cake his friends.	
	(A) with	(B) between
	(C) among	(D) to
8.	By next year, I my graduation.	
	(A) will complete	(B) will be completing
	(C) will have completed	(D) None of the above
9.	Which of the following is in the Past	Perfect Continuous Tense?
	(A) She had completed her work.	(B) They were playing in the park.
	(C) He had been studying all night.	(D) We have been waiting for an hour.
10.	Which of the following is NOT an adverb?	
	(A) Slowly	(B) Quickly
	(C) Beautiful	(D) Carefully
(Re	ad the following passage and answ	ver the questions 11 to 15)
and auti safe resp and inde into guid	bedient child is typically characterize follow the instructions and rules set be hority figures. They generally respect to the and well-being and are cooper consibilities assigned to them. While of a sense of respect, it's often be expendent thought and the ability to a well-rounded individual who und dance and self-reliance. According to the paragraph, what is	by their parents, teachers, and other the boundaries established for their ative in carrying out tasks and bedience can reflect good manners lanced with the development of discern right from wrong, growing derstands the importance of both
	obedient child?	(D) William (C)
	(A) Always being silent	(B) Willingness to follow instructions
	(C) Never making mistakes	(D) Only listening to their friends

12.	12. The paragraph mentions that obedient children typically show:	
	(A) Disrespect for authority figures.	(B) Disregard for established rules.
	(C) Respect for boundaries.	(D) Tendency to be rebellious.
13.	Obedience in children is often assoc	iated with:
	(A) Being isolated from others	(B) Developing only one skill
	(C) Good manners	(D) Avoiding all responsibilities
14. The paragraph suggests that obedience should be balar		nce should be balanced with:
	(A) Complete dependence on others.	(B) The development of independent thought.
	(C) Ignoring all advice.	(D) Constant agreement with everyone.
15.	5. Growing into a well-rounded individual involves understanding importance of:	
	(A) Only self-reliance	(B) Only guidance
	(C) Both guidance and self-reliance	(D) Neither guidance nor self- reliance
	Section B (So	<u>cience)</u>
16.	16. Which of the following changes when a force is applied to an object	
	(A) Velocity	B) Inertia
	(C) Mass	D) Weight
17.	17. An object of mass 2 kg accelerates at 3 m/s ² . What is the net acting on it?	
	(A) 1.5N	B) 5N
	(C) 6N	D) 10N
18.	According to Newton's Second Law, force is directly proportional to	
	(A) Mass only	B) Product of mass and acceleration
	(C) Acceleration only	D) Momentum
19.	A body continues to be in its state or by	f rest or motion unless acted upon
	(A) Acceleration	(B) Inertia

	(C) Force	(D) Gravity
20.	The acceleration produced in a body is inversely proportional to its	
	(A) Force	(B) Displacement
	(C) Velocity	(D) Mass
21.	The process in which a solid is dir	rectly converted to a vapour state is
	known as	
	(A) vaporisation	(B) solidification
	(C) condensation	(D) sublimation
22.	The maximum number of electron	s in the third shell of an atom is
	(A) 18	(B) 2
	(C) 32	(D) 8
23.	3. The atomic mass unit (amu) is based on	
	(A) Mass of carbon-12 isotope	(B) Mass of a proton
	(C) Mass of a neutron	(D) Mass of an electron
24.	Which of the following is a molecu	le made up of two identical atoms?
	(A) Water(H_2O)	(B) $Oxygen(O_2)$
	(C) Methane (CH_4)	(D) Carbon dioxide (CO_2)
25.	The atomic number of an element	is determined by the number of
	(A) Protons	(B) Electrons
	(C) Neutrons	(D) Nucleons
26.	6. Which of the following organelles is directly involved in synthesizing	
	plasma membrane and cell wall components?	
	(A) Lysosome	(B) Ribosome
	(C) Golgi apparatus	(D) Endoplasmic reticulum
27.	During which stage of mitosis does disappear?	s the nuclear membrane completely
	(A) Telophase	(B) Anaphase
	(C) Metaphase	(D) Prophase
28.	What causes stomata to open duri	ng the day?
	(A) Water lose through osmosis from the guard cells	(B) Turgidity of guard cells due to water absorption

- (C) Lack of chloroplasts in supporting cells
- (D) Pressure exerted by supporting cells on stomata
- 29. What is the function of the axon in a neuron?
 - (A) Receives signals from other neurons.
- (B) Transmits signals away from the cell body
- (C) Protects the nucleus of the neuron
- (D) Supplies energy to the neuron
- 30. Who introduced the system of binomial nomenclature?
 - (A) Charles Darwin

(B) Robert Hooke

(C) Carlus Linnaeus

(D) Aristotle

Section C (Mathematics)

- 31. The value of $\sqrt[5]{32^3} \left(\frac{1}{125}\right)^{-\frac{2}{3}}$ is
 - (A) 17

(B) -7

(C) 11

- (D) 1
- 32. If *m*, *n* are integers and *x*, *y* are non-zero rational numbers, then which of the following is not true?
 - (A) $x^m \times x^n = x^{m+n}$

(B) $\frac{x^m}{x^n} = x^{m-n}$

(C) $(xy)^m = x^m y^m$

- (D) $(x^m)^n = x^{m^n}$
- 33. The H.C.F of $16(x^2 3x + 2)$, $24(x^2 4x + 3)$ and $32(x^2 + 6x 7)$ is
 - (A) 8(x+1)

(B) 32(x-1)

(C) 24(x-1)

- (D) 8(x-1)
- 34. Quartic polynomial is of degree
 - (A) 4

(B) 3

(C) 2

- (D) 1
- 35. Which of the following is an irrational number?
 - (A) $\sqrt{7}$

- (B) $\sqrt{4}$
- (C) $(2-\sqrt{2})(2+\sqrt{2})$
- (D) $2 + 2\sqrt{3} 2\sqrt{3}$
- 36. The value of x which satisfies the equation: $\left(\frac{3}{4}\right)^3 \left(\frac{4}{3}\right)^{-7} = \left(\frac{3}{4}\right)^{2x}$

	(A) -2	(B) 2
	(C) -5	(D) 5
37.	If -1 is a zero of the polynomial value of a is	$p(x) = ax^3 - x^2 + x + 4$, then the
	(A) 2	(B) 1
	(C) 3	(D) 0
38.	A point $P(x, y)$ lies in the II quainterchanged, then it lies in the	drant. If the signs of x and y are
	(A) I quadrant	(B) II quadrant
	(C) III quadrant	(D) IV quadrant
39.	Ordinate of a point is negative in	
	(A) III and IV quadrant	(B) III quadrant only
	(C) II and III quadrant	(D) IV quadrant only
40.	The number of dimensions a surface	ce has is
	(A) 0	(B) 1
	(C) 2	(D) 3
41.	Which of the following is a solution	of the equation $x - 2y = 4$?
	(A) (0,2)	(B) (2,0)
	(C) (4,0)	(D) (1,1)
42.	The equation which represents a sat a distance of 5 units from the x -	straight line parallel to the axis of x –axis is
	(A) $x = 5$ and $x = -5$	(B) $y = 5$ and $y = -5$
	(C) $x = 5$ only	(D) $y = -5$ only
43.	The equation of the graph which pa	asses through the origin is
	(A) y = kx	(B) $y = k + 2$
	(C) $y + x = k + 1$	(D) $x = k - 2$
44.	Which of the followings is not true	?
	(A) Equation of x – axis is $y = 0$	(B) The graph of $x = c$ is parallel to y —axis
	(C) The graph of a linear equation is a straight-line	(D) The graph of $y = 4$ is perpendicular to x axis

45.	45. The sum of all angles around a point is	
	(A) 90°	(B) 180°
	(C) 270°	(D) 360°
46.	If two straight lines intersect at a	point, then the number of adjacent
	angles formed is	
	(A) 6	(B) 8
	(C) 2	(D) 4
47. Three friends <i>A</i> , <i>B</i> and <i>C</i> walk away from a point in three d direction such that the path of each is equally inclined to thos other two. The angles which their paths make with another is		ch is equally inclined to those of the
	(A) 120°	(B) 60°
	(C) 90°	(D) 180°
48.	If $a + b + c = 9$ and $ab + bc + ca$	= 40, then the value of $a^2 + b^2 + c^2$
	is	
	(A) 1	(B) 41
	(C) 49	(D) 121
49.	If $x^{\frac{1}{12}} = (49)^{\frac{1}{24}}$, then x is equal to	
	(A) 49	(B) 2
	(C) 12	(D) 7
50.	0. When $p(x) = 4x^3 - x^2 + 1$ is divided by $x + 1$, then the remainder	
	(A) -3	(B) -4
	(C) 3	(D) 1
51.	Which one is not a primitive Pytha	gorean triplet?
	(A) (3,4,5)	(B) (5,12,13)
	(C) (8,15,17)	(D) (6,8,10)
52.	If $x + \frac{1}{x} = \sqrt{3}$, then the value of x^3	$+\frac{1}{x^3}$ is
	(A) 0	(B) $3\sqrt{3}$
	(C) 3	(D) 9
53.	If $x + y + z = 0$, then $(x + y)(y +$	
	(A) xyz	(B) $x^2y^2z^2$

	(C) 2 <i>xyz</i>	(D) $-xyz$
54.	The base and hypotenuse of a respectively. Area of the triangle is	right triangle are $8cm$ and $10cm$
	(A) $40cm^2$	(B) 24 <i>cm</i>
	(C) $24cm^2$	(D) $48cm^2$
55.	The decimal representation of the	rational number is
	(A) Always terminating	(B) Either terminating or repeating
	(C) Either terminating or non- repeating	(D) Neither terminating nor repeating
56.	A linear equation in two variable where	es is of the form $ax + by + c = 0$,
	(A) a = 0, c = 0	$(B) a \neq 0, b = 0$
	$(C) a = 0, b \neq 0$	(D) $a \neq 0, b \neq 0$
57.	If one angle of a triangle is equal then the triangle is	to the sum of the other two angles,
	(A) a right triangle	(B) an isosceles triangle
	(C) an equilateral triangle	(D) an obtuse triangle
58.	We know that $\sqrt{6}$ and $\sqrt{7}$ are the number between $\sqrt{6}$ and $\sqrt{7}$ is	wo irrational numbers. A rational
	(A) 2.5	(B) No rational number exists between them
	(C) 2.65	(D) 2.44
59.	Which property states that $x \times (y)$	$+z) = (x \times y) + (x \times z)?$
	(A) Commutative property of multiplication	(B) Associative property of multiplication
	(C) Distributive property	(D) Identity property of multiplication
60.	How many dimensions does a poin	nt have?
	(A) 0	(B) 1
	(C) 2	(D) 3