(A) DISRUPT

1.

2024 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.

(B) CONTRAST

Synonym for the word CONTRABAND is

	(C) COUNTER	(D) SMUGGLE	
2.	The antonym of the word VARIED is	3	
	(A) UNITE	(B) UNITY	
	(C) UNIFORM	(D) UNIT	
3.	Change the voice:		
	Shall we help him?		
	(A) She shall be helped	(B) Shall she get help from us?	
	(C) She will be helped by us.	(D) Will she be helped by us?	
4.	Convert the following into a direct s	entence:	
	${\it My\ mother\ asked\ whether\ poverty\ is}$	not a curse.	
	(A) My mother said to him, "Poverty is a curse?"	(B) My mother said to him, "Is not poverty a curse?"	
	(C) My mother said to him, "Poverty is not a curse."	(D) My mother said to him, "Curse is poverty."	
Fill up with appropriate prepositions (Q 5-Q6)			
5.	The incident stands testimony	his kindness.	
	(A) to	(B) for	
	(C) upon	(D) on	
6.	This will put a slur his name	e.	
	(A) upo	(B) in	

	(C) on	(D) at
7.	He retired loneliness in his	s old age.
	(A) into	(B) from
	(C) upon	(D) onto
8.	Correct the following sentence:	
	I seldom or ever find them quarrelling	g.
	(A) I seldom find them quarrelling.	(B) I find them quarrelling most of the time.
	(C) They always quarrel.	(D) no change required
9.	Complete the sentence:	
	The train to Delhi at 8 p.m.	
	(A) will leave	(B) leaves
	(C) will be leaving	(D) shall be leaving
10.	Change the voice:	
	The shed was burnt to ashes.	
	(A) To ashes were the shed burnt.	(B) To ashes was the shed burnt.
	(C) Fire burnt the shed to ashes.	(D) Fire made the shed burnt to ashes.
(Red	nd the following passage and answer t	the questions 11 to 15)
land stre for j	lilies are a beautiful perennial flower lscape. They are tolerant of drough ss, and grow well in full sun or light fust about any soil or climate conditions the in bloom from late spring until au	nt and flooding, immune to heat shade. They are the perfect choice ion. Different varieties of daylilies

Daylilies are a beautiful perennial flower that can brighten up any yard or landscape. They are tolerant of drought and flooding, immune to heat stress, and grow well in full sun or light shade. They are the perfect choice for just about any soil or climate condition. Different varieties of daylilies can be in bloom from late spring until autumn. Individual flowers last only one day, but each plant produces many buds, and many varieties have more than one flowering period. Daylilies grow best in soil that is slightly acidic, and they prefer either direct sunshine or light shade. The best time to plant them is in the early fall or early spring, but they are hardy enough to endure planting or transplanting at almost any time of year. They should be planted 18 to 24 inches apart, and the bulb should be no deeper than one inch below the soil's surface.

- 11. According to the passage, what soil is best for daylilies?
 - (A) slightly neutral

(B) slightly acidic

	(C) any soil	(D) moist soil
12.	You could conclude from this passa daylilies because	ge that these flowers are called
	(A) they only bloom in the daytime	. (B) the blooms last for one day
	(C) they look like real lilies, but aren't.	(D) Charles Day developed the hybrid.
13.	How deep should daylilies be plante	ed, according to the passage?
	(A) 18 to 24 inches	(B) one inch or more
	(C) one inch or less	(D) any depth is fine
14.	The word <i>perennial</i> , as used in this	passage, means
	(A) it blooms rarely.	(B) it blooms every year.
	(C) it is red in colour.	(D) it is part of the lily genus.
15.	The word <i>immune</i> means:	
	(A) weak	(B) allergic
	(C) resistant	(D) none of the above
16.	Which of the following is a connecti	ve tissue?
	(A) Ligament	(B) Tendon
	(C) Blod	(D) All the above
17.	Dysentery and malaria are caused b	y:
	(A) bacteria.	(B) virus
	(C) protozoa	(D) algae
18. The management and production of fish is called:		f fish is called:
	• • •	(B) Pisciculture
	(3) 331131113	(D) Aquaculture
19.	Which of the following tissues has d	lead cells?
	(A) Parenchyma	(B) Sclerenchyma
	(C) Collenchyma	(D) Epithelial tissues
20.	Double membrane is absent in	
	(A) Mitochondria	(B) Chloroplast
	(C) Nucleus	(D) Lysosome

21. A person sitting on a moving bus falls forward when the bu suddenly. It is due to		falls forward when the bus brakes
	(A) Inertia of rest	(B) Inertia of motion
	(C) Inertia of direction	(D) None of the above
22.	The rate of change of distance of a	particle gives
	(A) displacement	(B) acceleration
	(C) velocity	(D) speed
23.	The agent that can make change object is called	in the state of rest or motion of an
	(A) Weight	(B) Acceleration
	(C) Force	(D) Velocity
24.	When a stone is thrown vertically due to	upwards, it falls down back to earth
	(A) Inertia	(B) Mass
	(C) Gravity	(D) None of the above
25.	Sound travels faster in	
	(A) water	(B) air
	(C) steel	(D) glass
26.	The process in which solid is dir called known as	ectly converted to vapours state is
	(A) vaporisation	(B) solidification
	(C) condensation	(D) sublimation
27.	What is true about homogeneous	mixture?
	(A) Homogeneous mixture is the mixture of two or more than two components.	(B) In homogeneous mixture the composition and properties are uniform throughout the mixture
	(C) both A and B are true	(D) none of the above.
28.	What is the value of Avogadro's nu	ımber?
	(A) 6.022×10^{-23}	(B) 6.022×10^{23}
	(C) 6.022×10^{-22}	(D) 6.022×10^{22}

29.	The only exceptional element whe proton is	re the nucleus contains only a single
	(A) oxygen	(B) Helium
	(C) Hydrogen	(D) Cadmium
30.	J.J. Thomson discovered	
	(A) Valency of an atom	(B) proton
	(C) neutron	(D) electron
31.	Simplified value of $(256)^{-\left(4^{-\frac{3}{2}}\right)}$ is	
	(A) 2	(B) $\frac{1}{2}$
	(C) 4	(D) 8
32.	If $\left(\frac{a}{b}\right)^{2-x} = \left(\frac{b}{a}\right)^{3x-4}$ then x is	
	(A) 0	(B) 2
	(C) -1	(D) 1
33.	If $a = 3 + 2\sqrt{2}$, then the value of a	$^2 + \frac{1}{a^2}$ is
	(A) 35	(B) 36
	(C) 34	(D) 32
34.	The integer 0 is	
	(A) a natural number	(B) a positive number
	(C) a negative number	(D) neither positive nor negative
35.	The rational number between $-\frac{2}{3}$	and $\frac{3}{2}$ is
	(A) $\frac{12}{5}$	(B) $\frac{5}{12}$
	(C) $-\frac{2}{5}$	(D) $\frac{5}{4}$
36.	Which of the followings is true?	
	(A) Every whole number is a natural number	(B) Every integer is a rational number
	(C) Every rational number is an integer	(D) Every integer is a whole number.

	(A) 5	(B) 12
	(C) -8	(D) 8
38.	Which of the following is not true	about zero of a polynomial?
	(A) A zero of a polynomial need not be 0	(B) 0 may be a zero of a polynomial
	(C) A polynomial has at least one zero	(D) Constant polynomials have no zero
39.	Zero of the polynomial $p(x) = ax$;	$a \neq 0$ is
	(A) 0	(B) a
	(C) 1	(D) $\frac{1}{a}$
40. Common zero(s) of the polynomials $x^4 - x^3 - 4x^2 + 4x$:		ials $x^4 - 4x^2$, $x^4 + 2x^3 - 8x^2$ and
	(A) 1,2	(B) 0
	(C) 2	(D) 0,2
41.	HCF of the polynomials $x^2 - 5x -$	14, $3x^2 + 5x - 2$ and $x^3 + 8$ is
	(A) $x - 2$	(B) $x + 1$
	(C) $x + 2$	(D) $x + 3$
42.	The LCM of the polynomials $5(x -$	$(y)^2$, $10(x^2 - y^2)$ and $15(x + y)^2$ is
	(A) $30(x^2 - y^2)^2$	(B) $(x + y)^2(x - y)^2$
	(C) $45(x+y)^2(x-y)^2$	(D) $50(x^2 + y^2)^2$
43.	Abscissa of a point is positive in	
	(A) I and II quadrant	(B) I and IV quadrant
	(C) I quadrant only	(D) IV quadrant only
44.	Mirror image of the point (3,9) on	x – axis is
	(A) (-3,9)	(B) (9,3)
	(C) (3, -9)	(D)(-9,3)
45.	The number of straight lines deter	mined by three collinear points is
	(A) 1	(B) 2
	(C) 3	(D) 4
46.	The number of dimensions a surfa	ce has is

	(A) 0	(B) 1	
	(C) 2	(D) 3	
47.	An angle θ is said to be reflex if		
	(A) $90^0 \le \theta \le 180^0$	(B) $180^{\circ} < \theta < 360^{\circ}$	
	(C) $180^0 \le \theta \le 360^0$	(D) $90^{\circ} < \theta < 180^{\circ}$	
48.	If the measure of an angle is twice angle, then the measure of the ang	e the measure of its supplementary le is:	
	(A) 60°	(B) 90°	
	(C) 120°	(D) 45°	
49.	When two parallel lines are intersected by a transversal, then which of the following is false?		
	(A) corresponding angles are equal	(B) alternate angles are equal	
	(C) interior angles on the same side are complementary	(D) they make a triangle	
50.	Given the angles of a triangle are in angles are	the ratio 2: 5: 11. Two of these three	
	(A) 50° , 90°	(B) 110^{0} , 30^{0}	
	(C) 20° , 120°	(D) 110^{0} , 50^{0}	
51.	51. Three friends walk away from a point in three different direct the morning walk such that the path of each is equally inclined of the other two. The angles that their paths make with one an		
	(A) 60° each	(B) 120 ⁰ each	
	(C) 180 ^o each	(D) 90° each	
52. If each angle of a triangle is less than the sum of the other triangle is		nn the sum of the other two, then the	
	(A) acute angled triangle	(B) isosceles triangle	
	(C) scalene triangle	(D) obtuse triangle	
53.	The difference of the squares of t equal to	wo consecutive natural numbers is	
	(A) product of the two numbers	(B) difference of the two numbers	
	(C) sum of the two numbers	(D) LCM of the two numbers	

54.	A group of a boys in a class bought a football costing Rs.200. If each bocontributed as many 50 paise -coins as there were boys, then the number of boys is	
	(A) 40	(B) 25
	(C) 22	(D) 20
55.	The smallest number that must b difference is a perfect cube is	e subtracted from 9761 so that the
	(A) 520	(B) 500
	(C) 400	(D) 521
56.	56. A two-digit number is such that the digit in the 10's place is 3 than in the unit's place. If <i>x</i> is in the 10's place, then the two number is	
	(A) $11x - 3$	(B) $10x + 3$
	(C) $12x - 3$	(D) $2x - 3$
57.	The value of $8a^3 + b^3$ if $2a + b =$	5 and $ab = 4$ is
	(A) 7	(B) 6
	(C) 4	(D) 5
58.	If $x = 2 + \sqrt{3}$, then the value of x^2	-4x + 5 is
	(A) 4	(B) 5
	(C) 0	(D) $2\sqrt{3}$
59.	59. A pair of shoes was sold for Rs. 704 after allowing discount of 12 the marked price. The marked price is	
	(A) Rs.750	(B) Rs.800
	(C) Rs.820	(D) Rs.810
60.	Solve for x : $\frac{1}{1 + \frac{1}{1 - \frac{1}{x}}} = 4$	
	(A) $\frac{1}{2}$	(B) $\frac{3}{7}$
	(C) $-\frac{3}{7}$	(D) $\frac{7}{3}$
	•	