	The search exam, which aims to identify, reward and nurture the talent
M.M. 100	TIME 50 MIN.
Name Father Name Mobile No.	
 This booklet co All questions a There will be r Immediately fil Booklet with B strictly prohibit You will not be the invigilator. Father Name carefully, as pe before you act which your Ans be awarded 'Zt 	 Intains 50 Questions. re compulsory and carry 2 mark, to negative marking. I in the particulars on this page of the Test lue/Black Ball Point Pen. Use of pencil is red. e supplied the Answer-Sheet separetely by You must complete the details of <i>Name</i>, and <i>Mobile Number</i> on the Answer-Sheet r detailed instructions supplied by Academy, ually start answering the questions, failing wer-Sheet will not be evaluated and you will ERO' mark. 6. No candidate is allowed to carry any textual material, printed or written, bits of papers, mobile phone, any electronic device, etc., except the 1 - Card, inside the examination hall/room. 7. Rough work is to be done on the space provided for this purpose in the Test Booklet only. Use of white fluid for correction is not permissible on the Answer-Sheet. No rough work is to be done on the Answer-Sheet. 8. On completion of the test, the candidate must hand over the Answer Sheet to the Invigilator on duty in the Room/ Hall; however, the candidates are allowed to take away this Test Booklet with them.
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Space for Rough Work					

SEC	SECTION - B (Comprehension)						
	Read the passage and give the answer of the following questions:						
	A chemical formula represents the composition of a molecule of the substance in terms of the symbols						
of th	of the elements present in the molecule. For writing the chemical formula of different compounds, it is						
esse	ential to know the symbols and the combining ca	pacity of the elements. The combining power of an					
elem	element is known as its valency.						
7.	A chemical formula represents						
	(A) Composition of matter	(B) Composition of a molecule					
	(C) Composition of an atom	(D) All of these					
8.	Valency of an atom is						
	(A) Its combining power to form a compound	(B) Indicate the formula of a compound					
	(C) Always 1	(D) All of these					
9.	Important information required to write a chemical formula is						
	(A) Symbols	(B) Valency					
	(C) Number of electrons in the atom	(D) Both (A) and (B)					
SEC	TION - C (Matrix Match)						
10.	Match the following :						
	Column I	Column II					
	a. Shock	(i) Room of size $\frac{1}{20}$ th of the magnitude of velocity					
		of sound					
	b. Echo	(ii) Velocity of object > 320 ms ⁻¹ in air					
	c. Ultrasonic waves	(iii) Require a medium to propagate					
	d. Longitudinal waves	(iv) Frequency > 20,000 Hz					
	(A) a(i), b(ii), c(iii), d(iv)	(B) a(ii, iii), b(i, ii), c(iii, iv), d(iii)					
	$(\mathbf{O}) = (11) + (11) + (11) + (11) + (11)$	(D) a(iy) b(iii) c(iii iy) d(i)					
	(C) a(III), b(I, II), c(II), d(IV)						
	(C) a(III), b(I, II), c(II), d(IV) Space for Re	bugh Work					
	(C) A(III), D(I, II), C(II), d(IV) Space for Ro	ough Work					
	(C) A(III), D(I, II), C(II), d(IV) Space for Ro	ough Work					
	(C) A(III), D(I, II), C(II), d(IV) Space for Ro	ough Work					
	(C) A(III), D(I, II), C(II), d(IV) Space for Ro	ough Work					

11.	Match the following :					
	Column I	Column II				
	a. Isotopes	(i) Species with same numher of electrons				
	b. Isotones	(ii) Atoms with same mass number				
	c. Isobars	(iii) Atom with same atomic number but different mass number				
	d. Isoelectronic species	(iv) Atoms with same number of neutrons				
	(A) a(i), b(ii), c(iii), d(iv)	(B) a(ii), b(iii), c(iv), d(i)				
	(C) a(iii), b(iv), c(ii), d(i)	(D) a(iv), b(iii), c(ii), d(i)				
SEC	TION - D (Assertion-Reason)					
	In the following questions, a statement of Assert	ion (A) is followed by a statement of Reason (R).				
(A)	If both Assertion & Reason are true and the Reason is	correct explanation of the Assertion, then mark (A).				
(B)	If both Assertion & Reason are true but the Reason is not the correct explanation of the					
	Assertion, then mark (B).					
(C)	If Assertion is true statement but Reason is fal	se, then mark (C).				
(D)	If both Assertion and Reason are false stateme	ents, then mark (D).				
12.	A : The relative density has no unit.					
	R : Relative density is the ratio of density of the substance to the density of water.					
13.	A : When a body is immersed in water, it loses wei	ght.				
	R : The downward thrust acts on the body immers	ed in water.				
14.	A : A block of wood rises up faster in a salt solution	than in pure water.				
	${\sf R}$: The density of pure water is greater than the de	ensity of salt solution.				
15.	In angiosperms					
	(A) Xylem possesses vessels	(B) Phloem has sieve tubes and companion cells				
	(C) Flowers are reproductive strutures	(D) All of these				
16.	Which of the following groups contains triploblastic	animals having true body caity?				
	(A) Platyhelminthes (B) Nematoda	(C) Annelida (D) Cnidaria				
17.	BCG vaccination is given for the prevention of					
	(A) Polio (B) Tuberculosis	(C) Tetanus (D) Anthrax				
	Space for Roug	gh Work				









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Dire	ction (41 to 48) : Cho	ose the word from given alterr	natives, which bears san	ne relationship to that group:
41.				
40		(B) 0F0	(C) FOU	(D) FLV
42.	2.0.4.		(0) 40	(D) 44
4.2	(A) 24		(C) 40	(D) 44
43.	Arrange the given we	oras in meaningful sequence :	(0) he die	
	(1) Manarashtra	(2) Shirdi	(3) India	(4) Asia
	(5) world (4) (2) (4)	(5)	(D) (1) (2) (E) (A) (2)	λ.
	(A) (2), (1), (3), (4), (C) (5), (1), (2), (4)	(3)	(D) (1), (2), (3), (4), (3) (D) (3) (2) (1) (4) (5)	() ()
11	(C)(3), (1), (2), (4),	(3) are there in the following figure	(D) (D), (Z), (T), (Ŧ), (IJ	')
	now many mangics	are there in the following light		
	(^) 0		(C) 16	(D) 11
15	$(A) \circ$	$(D) \forall a + mapping and + mapp$	(C) 10 + then the value of 22 +	(D) Π
45.	(Λ) 14	(\mathbf{P}) $\mathbf{A1}$		$6 - 4 \times 12 + 4 15$
46	(A) - 14 If 17th Sentember of	a year was Monday, what will	be the day on 20th Octo	(D) = 12
-0.	(Δ) Saturday	(B) Sunday	(C) Monday	(D) Tuesday
47	A husband and wife	had five married sons and each	h of them had four childr	en How many members are
	there in the family?			
	(A) 50	(B) 40	(C) 32	(D) 36
48.	Pointing to Keshav, Priyanka said, "His mother's brother is the father of my son Nikhil". Ho related to Privanka?			
	(A) Niece	(B) Aunt	(C) Nephew	(D) Sister-in-law
		Space for Rou	ıgh Work	



ANSWER KEY (CLASS 9TH)									
1	2	3	4	5	6	7	8	9	10
С	D	D	С	D	В	В	Α	D	В
11	12	13	14	15	16	17	18	19	20
С	Α	С	С	D	С	В	В	В	Α
21	22	23	24	25	26	27	28	29	30
В	С	В	В	С	Α	D	С	D	В
31	32	33	34	35	36	37	38	39	40
С	Α	Α	Α	С	D	В	В	D	D
41	42	43	44	45	46	47	48	49	50
Α	В	Α	С	Α	С	С	В	Α	В