



SAMPLE TEST PAPER A TALENT SEARCH EXAM 2019

Time: 30 Minutes

Class: 9th STAGE - 1

Max. Marks: 100

Name :

Roll No.:

INSTRUCTIONS

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose. You are not allowed to leave the examination hall before the end of the test.

[A] General :

- Attempt ALL the questions. Answer have to be darkened on the OMR sheet. 1.
- 2. This question paper contains 25 questions.
- 3. The question paper consists of THREE Parts, e.g. Mathematics (1 to 10), Science (11 to 20) & Mental Ability (21 to 25)
- 4. Blank spaces are provided at the bottom of each page for rough work. No additional sheets will be provided for rough work.
- 5. Blank paper, clipboard, log tabes, silde rules, calculators, cellular phones, pagers and electronic gadgets in any form are NOT allowed.
- Do not Tamper / multilate the OMR sheet or this booklet. 6.
- 7. Do not break the seals of the question-paper booklet before instructed to do so by the invigilator.
- 8. SUBMIT the OMR sheet to the invigilator after completing the test & take away the test paper with you.

[B] Filling of OMR Sheet :

- 9. In all the parts, each question will have 4 choices out of which only one choice is correct
- 10. Use only Black/Blue ball point pen for filling the OMR sheet.
- 11. On the OMR sheet, darken the appropriate bubble for each character of your name, Registration No., Phone No. etc.
- [C] Marking Scheme :
- 12. For each right answer you will be awarded 4 marks if you darken the bubble corresponding to the corrrect answer and zero marks if no bubble is darkened. In case of bubbling of incorrect answer, minus one (-1) mark will be awarded.

Best of Luck

Head Office : Grand Plaza, Fraser Road, Dak Bunglow, Patna-1, 8448446676, 9431027690/99

OUR STUDY CENTERS :

MUMBAI

Grand Plaza, Fraser Road Dak Bunglow, Patna-1 Mob. No. 9431027690

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PART - I (MATHEMATICS)

(SINGLE CORRECT ANSWER TYPE)

This section contains (1-10) multiple choice questions. Each questions has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct.

Q.1	√ 6 +	$\sqrt{6+\sqrt{6+\ldots\infty}}$ is equ	ial to					
	(A)	-3	(B)	3	(C)	6	(D)	2
Q.2	A par	rallelogram has two of i	ts adja	acent sides measuring	g 13 ea	ach. Find the sum of th	e squ	res of its diagonals.
	(A)	169	(B)	338	(C)	676	(D)	507
Q.3	If rate	o of the volumes of the	spher	s is 8 : 27 , then the ra	tio of t	heir surface areas is _		<u> </u>
	(A)	4:9	(B)	9:4	(C)	4:3	(D)	2:9
Q.4	In the following figure, ABC is an equilateral triangle. DE is parallel to BC and equal to half the length of BC. If $AD + EC + CB = 24 \text{ cm}$, then what is the perimeter of triangle ADE ?							
	(A)	12cm			(B)	16cm	₀/	
	(C)	18cm			(D)	Cannot be determine	d	
Q.5	lf x =	$=2^{\frac{1}{3}}-2$, then $x^{3}+6x^{2}$	² + 12	x =				
	(A)	6	(B)	-6	(C)	8	(D)	-8
			_	Space for roug	n wor	k		











PART - II (SCIENCE)

(SINGLE CORRECT ANSWER TYPE)

This section contains (11-20) multiple choice questions. Each questions has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct.

Q.11 A bird is sitting on train A moving towards East with a velocity 300 km/hr. Another train B of same speed is moving in West direction on the same track. When the trains are 6 km apart, the bird starts flying with a velocity 30 km/hr with respect to ground towards B. After touching B, it returns back to A and continue repeating this process until the trains collide. In this process, the total distance travelled by the bird is :



Space for rough work





- Q.14 A body of mass 20 kg is kept initially at rest. A force of 80 N is applied on the body then the acceleration produced in the body is $3m/s^2$, force of friction acting on the body is :
 - (A) 80 N (B) 12 N (C) 20 N (D) zero
- Q.15 Which one of the following sets of phenomena would increase on raising the temperature?
 - (A) Diffusion, evaporation, compression of gases
 - (B) Evaporation, compression of gases, solubility
 - (C) Evaporation, diffusion, expansion of gases
 - (D) Evaporation, solubility, diffusion, compression of gases
- Q.16 The boiling points of diethyl ether, acetone and *n*-butyl alcohol are 35°C, 56°C and 118°C respectively. Which one of the following correctly represents their boiling points in kelvin scale?
 - (A) 306 K, 329 K, 391 K (B) 308 K, 329 K, 392 K
 - (C) 308 K, 329 K, 391 K (D) 329 K, 392 K, 308 K
- Q.17 A mixture of sulphur and carbon disulphide is
 - (A) heterogeneous and shows Tyndall effect
 - (B) homogeneous and shows Tyndall effect
 - (C) heterogeneous and does not show Tyndall effect
 - (D) homogeneous and does not show Tyndall effect

Space for rough work





Q.18	Two substances, A and B were made to react to form a third substance, A2B according to the following reaction							
	$2A + B \longrightarrow A_2B$							
	Which of the following statements concerning this reaction are incorrect?							
	(i) The product A_2B shows the properties of substances A and B							
	(ii) The product will always have a fixed composition							
	(iii) The product so formed cannot be classified as a compound							
	(i∨)	The product so formed is an element						
	(A)	(i), (ii) and (iii),	(B)	(ii), (iii) and (iv)				
	(C)	(i), (iii) and (iv)	(D)	(ii), (iii) and (iv)				
Q.19	In Di	abetes, which organ is responsible ?						
	(A)	Liver	(B)	Gall Bladder				
	(C)	Pancreas	(D)	Kidney				
Q.20	20 Development of foetus takes place in							
	(A)	vagina	(B)	uterus				
	(C)	ovary	(D)	oviduct				

Space for rough work





PART - III (MENTAL ABILITY)

(SINGLE CORRECT ANSWER TYPE)

This section contains (21-25) multiple choice questions. Each questions has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct.

	Directions: (21 to 23) Find the missing terms :							
Q.21	55, 210, ? , 820, 1275							
	(A) 465	(B) 420	(C) 410	(D) 515				
Q.22	BYCXA, EVFUD, HSIRG, KPLOJ, ?							
	(A) MNLOL	(B) NMOLM	(C) QJRIP	(D) PKQJO				
	A ? D							
Q.23	B 35 C							
	D 189 E							
	(A) 64	(B) 65	(C) 66	(D) 67				
Q.24	If RED is written as 24 and GREEN is written as 44 then WHITE will be written as :							
	(A) 59	(B) 45	(C) 60	(D) 65				
Q.25	25 Choose the missing terms out of the given alternatives.							
	Z, Y, X, U, T, S, P, O, N, K, ?, ?							
	(A) HG	(B) GF	(C) IH	(D) JI				
		Space for rough	work					









SAMPLE TEST PAPER ANSWER KEY

1.	(B)	2.	(C)	3.	(A)	4.	(C)
5.	(B)	6.	(C)	7.	(A)	8.	(B)
9.	(A)	10.	(B)	11.	(C)	12.	(D)
13.	(C)	14.	(C)	15.	(C)	16.	(C)
17.	(D)	18.	(C)	19.	(C)	20.	(B)
21.	(A)	22.	(B)	23.	(B)	24.	(C)
25.	(D)						

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