

ADMISSION CUM SCHOLARSHIP TEST

SAMPLE TEST PAPER

(For Students Going to Class 9th IN 2024)

COURSE OFFERED : GENESIS

Time : 2 hours

. Г

INSTRUCTIONS

Maximum Marks: 240

VTOR	(A)	General :							
NVIGIL∕	1.	This Question paper contains FIVE Parts (Physics, Chemistry, Mathematics, Biology & Mental) containing 60 questions in all.							
THE	2.	This Question Paper contains 10 pages, other than the OMR.							
S FROM	3.	The Question Paper has blank spaces at the bottom of each page for rough work.No additional sheets will be provided for rough work.							
JCTIONS	4.	Blank papers, clip boards, log tables, slide rule, calculators, cellular phones, pagers and electronic gadgets, in any form, are NOT allowed.							
STRL	5.	This booklet also contains the OMR answer sheet (i.e., A machine gradable Response Sheet).	┛║						
	(B)	Answering on the OMR:	1						
, AW/	6.	Each question will have 4 choices in both the Sections, out of which only one choice is correct .							
KLET	7.	Darken the bubble with Ball Pen (Blue or Black) ONLY.							
300	(C)	Filling – in Name and Registration No.							
	8.	On the OMR sheet , write your Name and Registration No. in ink. Also, put your signature in the appropriate box in ink.							
ALS C	(D)	Marking Scheme:							
HE SE∕	9.	(a) For each question, you will be awarded 4 marks if you have darkened only one bubble corresponding to the right answer.							
AK TI		(b) In case you have not darkened any bubble, you will be awarded 0 mark for that question.							
3RE/		(c) In all other cases, you will be awarded –1 mark .							
DO NOT BREAK THE SEALS ON THIS BOOKLET, AWAIT INSTRUCTIONS FROM THE INVIGILATOR	Nam	e:							

Mentors Eduserv : Parus Lok Complex, Boring Road Crossing, Patna-1

				SAMPLE PAPER (Genesis
		PART-A	: PHYSICS	
1.	Pressure on a bo	ody depends upon the :		
	(A) force applied		(B) area	
	(C) both A and B		(D) neither of two	0
2.	The ratio of force	e and acceleration of a m	oving body is the mea	sure of its:
	(A) velocity	(B) momentum	(C) mass	(D) impulse
3.	Light is			
	(A) an electroma	gnetic radiation	(B) a transverse	wave
	(C) massless		(D) all of the abo	ve
4.	The E.N.T. docto	or uses a		
	(A) convex mirro	r	(B) convex lens	
	(C) plane mirror		(D) concave mir	ror
5.	. , .	ich does not conduct ele	ctric current is called	
	(A) insulator	(B) solution	(C) metal	(D) electrocycle
6.	If 10 C charge flo the conductor is			of the current flowing through
	(A) 5A	(B) 2A	(C) 3A	(D) 1A
7.	Lighting occurs of	due to		
	(A) rain	(B) wind	(C) humidity	(D) electric discharge
8.	Richter scale is o	leveloped by		
	(A) William Rich	ard	(B) Benjamin Fra	anklin
	(C) Benjamin Rie	chter	(D) Charles F Ri	ichter
9.	Find acceleratio	n of the body along x-axi	s if friction coefficient	of the surface is $\mu = 0.1$
			У♠	
		10 kg	\rightarrow F = 100N \rightarrow X	
			,	
	(A) 1 m/s²	(B) 9 m/s ²	(C) 0 m/s ²	(D) 10 m/s ²

Mentors Eduserv[®]

SAM	PLE PAPER (Genesis)				[3]				
10.	A block slides down an inclined surface of inclination 30° with the horizontal. Starting from rest it covers 8m in the first two seconds. Find the coefficient of kinetic friction between the two.								
	(A) 0.11	(B) 0.22	(C)	0.33	(D) 0.44				
11.	Frequency of sou	and produced by a body	is 10 Hz	, then range is	3				
	(A) ultrasonic	(B) infrasonic	(C)	audible	(D) none of these				
12.	-	es 50 times in one seco							
	(A) 0.2 Hz	(B) 0.02 Hz	(C)	0.002 Hz	(D) 50 Hz				
		PART-B:	CHEM	IISTRY					
13.	Why is polyester	not suitable for summe	r wear?						
	(A) Polyester cre	ases easily	(B)	Polyester do	es not absorb sweat.				
	(C) It is very soft	and thin.	(D)	lt does not dr	y easily.				
14.	Which of the follo	wing is correct about bl	lended fa	brics ?					
	(A) They are less	expensive							
	(B) They have combined properties of each fibre.								
	(C) They are made by blending synthetic fibres with natural fibres.								
	(D) All of the above.								
15.	. ,	lements is used as an a	antiseptic	in medicine?					
	(A) Carbon	(B) Oxygen	(C)	Nitrogen	(D) lodine				
16.	Petroleum is four	nd							
	(A) on the surfac	e of the earth	(B)	in the atmosp	ohere				
	(C) in arctic regio	n	(D)) deep under the surface of the earth.					
		Snace fe	or rough w	ork					
		Space	or rough w	UIK					





Mentors Eduserv®

Mentors Eduserv: Parus Lok Complex, Boring Road Crossing, Patna-1 Helpline No. : 9569668800 | 7544015993/4/6/7





[6]				SAMPLE PAPER (Genesis)
28.	Find the square roo			
	(A) 1.4	(B) 1.6	(C) 2.6	(D) 3.6
29.	The base of an iso	sceles \triangle is $\frac{4}{3}$ cm. The	he perimeter of the $_{\Delta}$ is	$4\frac{2}{15}$ cm. What is the length
	of either of the rem	aining equal sides.		
	(A) $1\frac{2}{5}$ cm	(B) $2\frac{2}{5}$ cm	(C) $3\frac{2}{5}$ cm	(D) $4\frac{2}{5}$ cm
30.	A sum of Rs 2500 i Find the compound	-	at 20% per annum, inter	est compounded half-yearly.
	(A) Rs 3660.25	(B) Rs 1660.25	(C) Rs 1160.25	(D) Rs 1330
31.	If $2x + \frac{y}{3} = 12$ and	xy = 30, then find $8x^3$	$+\frac{y^3}{27}$	
	(A) 1008	(B) 168	(C) 106	(D) None of these
32.		fast as B. If B can con complete the same wo	-	, then in how many days can
	(A) 20	(B) 12	(C) 15	(D) 30
33.	If we divide 180 int then the two parts		second part is 12 more th	nan the twice of the first part,
	(A) 56, 124	(B) 54, 126	(C) 52, 128	(D) 50, 130
34.	36 men can compl same work?	ete a piece of work in [·]	18 days. In how many da	ays will 27 men complete the
	(A) 12	(B) 18	(C) 22	(D) 24
35.	If $x = \sqrt{7} + 4$, then	evaluate : x ² – 8x + 10)	
	(A) 0	(B) 2	(C) 1	(D) 3
		Space	for rough work	





Mentors Eduserv®

[8]				SAMPLE PAPER (Genesis)			
42.	Which scheme of pla	antation would help in o	developing new fores	its ?			
	(A) Deforestation	(B) Afforestation	(C) Agroforestry	(D) Social forestry			
43.	The egg of a hen is	a					
	(A) organ	(B) tissue	(C) cell	(D) organ system			
44.	Find the main differe	ence between an onior	peel cell and a huma	an cheek cells.			
	(A) Presence of mito	ochondria in onion pee	l cells only				
	(B) Presence of cell wall in onion peel cells only						
	(C) Absence of plasma membrane in cheek cells						
	(D) Absence of ende	oplasmic reticulum					
45.	Observe the cell give	en below and relate it t	o the correct option.				
	(A) It is a sperm cell			Nuclear Cytoplasm membrane			
	(B) It is a cheek cell						
				Nucleus			
	(C) It is a nerve cell		Ce				
	(D) It is a blood cell		m	embrane			
46.	What would fusion of	of male and female gar	netes result in ?				
	(A) An embryo	(B) Foetus	(C) Zygote	(D) None of these			
47.	Find out the incorrec	t statements about clo	ning of 'Dolly'.				
	(A) Dolly was born o	n 14th February, 1988					
	(B) Dolly was given	birth by a finn Dorset s	heep.				
	(C) Dolly was found	to be absolutely identi	cal to the Scottish bla	ckface ewe.			
		ne mammary gland cell sh blackface ewe who		t sheep was inserted into the removed.			
48.	Which of the following	ng is a master gland ?					
	(A) Testes	(B) Pituitary gland	(C) Thyroid gland	(D) Pancreas			
		Space for	rough work				
		I	8				
1							



SAMP	PLE PAPER (Genesis)			[9]						
	P	PART-E : MENT	AL ABILITY							
Find	Find missing numbers :									
49.	5, 7, 20, 21, 80, 63, ? 189									
	(A) 300	(B) 305	(C) 310	(D) 332						
50.	7, 9, 13, 21, ?,									
	(A) 30	(B) 32	(C) 35	(D) 37						
51.	2, 9, 28, 65, 126, ?									
	(A) 187	(B) 217	(C) 242	(D) 344						
52.	In a certain code '37' n code for 'caste' ?	neans 'which class' an	d '583' means 'caste an	d class', What is the						
	(A) 3	(B) 7	(C) 8	(D) Either 5 or 8						
53.	5, 30, 6, 42, 7, 56, ?									
	(A) 6	(B) 8	(C) 9	(D) 10						
54.	161, 160, 152, ?,1	15, 86 ?								
	(A) 127	(B) 137	(C) 140	(D) 142						
55.	51, 44, 37, ?, 23									
	(A) 32	(B) 28	(C) 30	(D) 26						
56.	3 6 4 12 5 5 18 2 2 3	2 5 ? 2 8								
	(A) 20	(B) 16	(C) 12	(D) 14						
		Space for rou	gh work							



[10]				SAMPLE PAPER (Genesis)
57.	6 9 40 5 7 48			
	(A) 54	(B) 70	(C) 72	(D) 80
Find	missing letters :			
58.	AZ, XB, CV, TD, ?			
	(A) PD	(B) ER	(C) RE	(D) OQ
59.	A, B, C. G, ?			
	(A) M	(B) L	(C) K	(D) H
60.	Y, W, U, S, Q, ??			
	(A) NJ	(B) ML	(C) JR	(D) OM
		Space for ro	ugh work	



SAMP	PLE PAPER	(Genesis)						[11]		
				AN	ISW	ER KEYS				
	SAMPLE TEST PAPER									
	(For Students Going to Class 9 th IN 2024)									
	COURSE OFFERED : GENESIS									
					PH۱	SICS				
1.	(C)	2.	(C)	3.	(D)	4. (D)	5. (A)	6. (A)		
7.	(D)	8.	(D)	9.	(B)	10. (A)	11. (B)	12. (D)		
				C	HEN	IISTRY				
13.	(B)	14.	(D)	15.	(D)	16. (D)	17. (B)	18. (A)		
19.	(C)	20.	(B)	21.	(A)	22. (B)	23. (C)	24. (C)		
				M	атне	MATICS				
25.	(B)	26.	(B)	27.	(B)	28. (B)	29. (A)	30. (C)		
31.	(A)	32.	(C)	33.	(A)	34. (D)	35. (C)	36. (A)		
					BIO	LOGY				
37.	(B)	38	(B)	39	_	40. (B)	41 (B)	42 (B)		
43.						46. (C)				
				ME	NTA	L ABILIT	Y			
49.	(D)	50.	(D)	51.	(B)	52. (D)	53. (B)	54. (B)		
55.	(C)	56.	(B)	57.	(C)	58. (B)	59. (C)	60. (D)		

Mentors Eduserv: Parus Lok Complex, Boring Road Crossing, Patna-1 Helpline No. : 9569668800 | 7544015993/4/6/7 Hentors Eduserv[®]