

ADMISSION CUM SCHOLARSHIP TEST SAMPLE TEST PAPER

(For Students Going to Class 11TH IN 2025)

STREAM : MEDICAL | COURSE OFFERED : MEDICAL GROUND ZERO

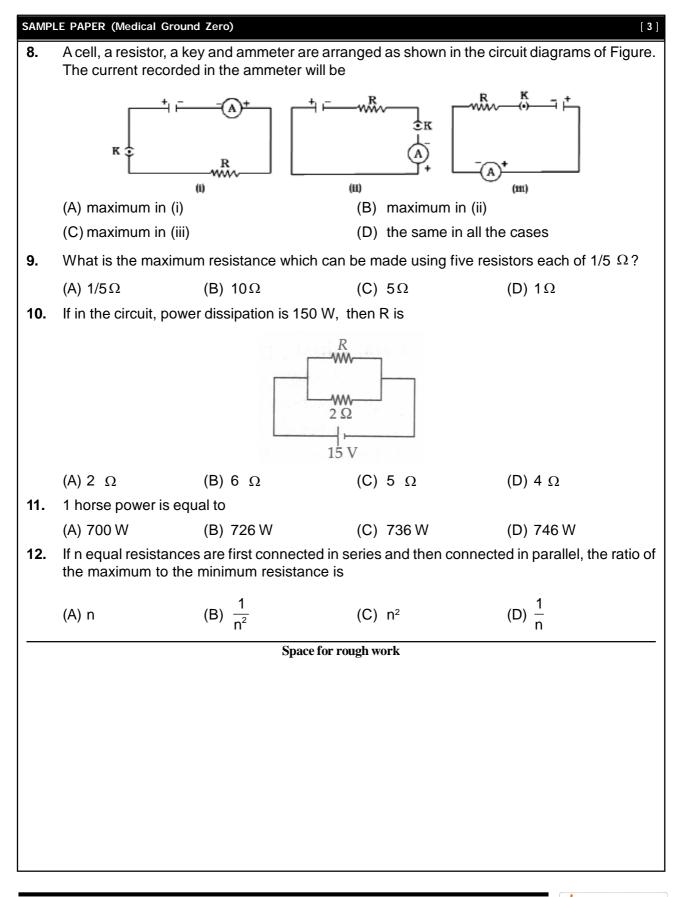
Time : 2 hours

Maximum Marks: 240

۰.	(A)	General :	
'IGILATOI	(A) 1.	This Question paper contains FOUR Parts (Physics, Chemistry, Biology & Mental Ability) containing 60 questions in all.	
Ň	2.	This Question Paper contains 12 pages, other than the OMR.	
OM THE	3.	This Question Paper contains total 60 questions, 15 questions each in Physics, Chemistry, Biology & Mental Ability.	
ONS FR	4.	The Question Paper has blank spaces at the bottom of each page for rough work.No additional sheets will be provided for rough work.	
FRUCTI	5.	Blank papers, clip boards, log tables, slide rule, calculators, cellular phones, pagers and electronic _ gadgets, in any form, are NOT allowed.	
ISNI	6.	This booklet also contains the OMR answer sheet (i.e., A machine gradable Response Sheet).	
VAIT	(B)	Answering on the OMR:	4
T, AV	7.	Each question will have 4 choices in both the Sections, out of which only one choice is correct .	ı . I
KLE	8.	Fill the bubble with Ball Pen (Blue or Black) ONLY.	
00	(C)	Filling – Name and Registration No.	S
N THIS E	9.	On the OMR sheet , write your Name and Registration No. using ball pen. Also, put your signature in the appropriate box using ball pen.	
TS O	(D)	Marking Scheme:	
HE SEA	9.	(a) For each question, you will be awarded +4 marks if you have darkened only one bubble corresponding to the right answer.	
4K Τ		(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 Reç	gistration No.:	

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[2]			5	SAMPLE PAPER (Medical Ground Zero)
		PART-A :	PHYSICS	
1.		ages formed by two pla ally between mirrors is	ane mirrors incline	d at an angle 60° of an object
	(A) 5	(B) infinite	(C) 6	(D) 7
2.		is a focal length 15 cm. A oduces an image at	A real object place	d at a distance 15 cm in front of
	(A) 7.5 cm	(B) 30 cm	(C) infinity	(D) 15 cm
3.	•	the size is obtained in a ance of the object and th		mirror with a radius of curvature. be
	(A) 15 cm, 30 cm	(B) 30 cm, 15 cm	(C) 30 cm, 60	cm (D) 60 cm, 30 cm
4.		reflected first from one		each other. A ray of light travel- from the other mirror. Then the
	(A) 180°	(B) 240°	(C) 60°	(D) 120°
5.		itions of a lens separate	•	s of an object are formed on the The ratio between the sizes of
	(A) D/d		(B) D ² /d ²	
	$(C) (D - d)^{2}/(D + d)$	2	(D) $\sqrt{(D/d)}$	
6.	The property of pe	rsistence of vision is use	ed in	
	(A) short sighted no	ess	(B) long sighte	edness
	(C) cinematograph	У	(D) colour visi	on
7.		ving statements is correc		
	.,	pow, red colour is on the		
	() I)	pow, violet colour is on th		colour is on the inside.
		bow is brighter than prin		l sefle stiens le sfense sensie a suit
	(D) In secondary ra			l reflection before coming out.
		Space for	rough work	



[4]			S	AMPLE PAPER (Medical Ground Zero)
13.	A circular loop is suspended in air as current flows anti-clockwise and when behaves as a magnet. The N-pole of th	seen from	n below, cur	-
	(A) the upper face	(B)	lower face	
14.	(C) the lower face if current is large SI unit of resistivity is	()		if current is large
	(A) ohm-meter (B) ohm-meter ²	(C)	ohm ⁻¹	(D) ohm-meter ⁻¹
15.	Which of the following is a better nucle			
	(A) Thorium - 236		Uranium - 2	235
	(C) Neptunium - 239	(D)	Plutonium	- 239
	PART-B	: CHEN	IISTRY	
16.	10 ⁻⁶ M HCI is diluted to 100 times. Its	oH is		
	(A) 6.0 (B) 8.0	(C)	6.95	(D) 9.5
17.	Iron filings were added to solution of co the blue colour of the solution changed solution and that of the layer would res	and layer g	ot deposited	
	(A) Yellow and green	(B)	Brown and	blue
	(C) Red and greenish blue	(D)	Green and	reddish brown
	Spac	e for rough w	vork	

SAMP	LE PAPER (Medical Ground Zero)	[5]
18.		n of sodium hydroxide with hydrochloric acid.
	(A) Na⁺ + Cl⁻→NaCl	(B) Na ⁺ + Cl ⁻ H ⁺ + OH ⁻ \rightarrow NaCl + H ₂ O ₍₁₎
	$(C) H^+ + OH^- \rightarrow H_2O_{(1)}$	(D) None of these
19.	The hydrophilic part of a synthetic deterger	nt is
	(A) CH ₃ (CH ₂) ₁₀ –CH ₂ –	(B) –CO⁻Na⁺
	(C) –SO ₃ Na ⁺	(D) –COO⁻Na⁺
20.	In the given structure, the type of carbon a	toms present are
		ĊН ₃
	H₂C−CH−C	$CH_2 - C - CH_3$ CH_3 CH_3
	(A) One primary, two secondary and one te	
	(B) Four primary, one secondary and two to	-
	(C) One primary, one secondary, one tertia	-
	(D) Five primary, one secondary, one tertia	
21.	The IUPAC name of	
	Н	Br
	$CH_3 - CH_2 - CH_2 - CH_2$	$I_2 - CH_2 - C - CH_3$ is
	OH	$ Br I_2 - CH_2 - C - CH_3 is Br $
		(B) 2, 2-dibromoheptan-2-ol
	(C) 6, 6-dibromoheptan-2-al	(D) 2, 6-dibromohydroxy heptane
22.	Which of the following statements is not co	orrect?
	(A) All metals are solid at room temperatur	·e.
	(B) All metals are good conductors of heat	and electricity.
	(C) All metals form basic oxides.	
	(D) All metals possess lustre when freshly	rough work
	Space for	Tough work

[6]			SA	MPLE PAPER (Medical Ground Zero)
23.	The metal that read	cts with cold water is		
	(A) Mercury	(B) Sodium	(C) Zinc	(D) Tungsten
24.	Brass is a mixture	of		
	(A) Copper and zin	С		
	(B) Copper and tin			
	(C) Copper, nickel a	and zinc		
	(D) Aluminium, cop	per and traces of Mg a	nd Mn	
25.	Among AI_2O_3 , SiO_2	, P_2O_3 and SO_2 the corr	rect order of acid stre	ength is
	(A) $SO_2 < P_2O_3 < S_2$	$SiO_2 < Al_2O_3$	(B) $Al_2O_3 < SiO_3$	$P_{2} < P_{2}O_{3} < SO_{2}$
	(C) $Al_2O_3 < SiO_2 <$	$SO_2 < P_2O_3$	(D) $SiO_2 < SO_2$	$< Al_2O_3 < P_2O_3$
26.	The correct order o	f electron affinity amon	g the following is	
	(A) F > Cl > Br	(B) Br > Cl > F	(C) $CI > F > Br$	(D) F > Br > Cl
27.	Alkali metals in eac	h period have		
	(A) Smallest size		(B) Lowest I.E.	
	(C) Highest I.E.		(D) Highest elec	ctronegativity
28.	In the balanced equ	lation		
	$Cu + xHNO_3 \rightarrow Cu$	$(NO_3)_2 + yNO_2 + 2H_2O$		
	The values of x and	d y are		
	(A) 3 and 5	(B) 8 and 6	(C) 4 and 2	(D) 7 and 1
29.	Copper on exposu chemically	re to air reacts with mo	bisture and CO ₂ to de	evelop a green layer which is
	(A) basic copper ca	arbonate	(B) copper sulpl	hate
	(C) copper carbona	ate	(D) copper nitra	te
		Space for	r rough work	
		-	C	

SAMP	E PAPER (Medical Ground	d Zero)				[7]
30.	In the reaction PCI_3 -	+ $Cl_2 \rightarrow PCl_5$				
	(A) PCl_3 is acting as					
	(B) Cl_2 is acting as re					
	-	² are acting as reductan	t			
		$_{2}$ are acting as oxidant.				
		PART-C : E	310	LOGY		
31.	The internal (cellular) energy reserve in auto	troph	is is :		
	(A) Glycogen	(B) Protein	(C)	Starch	(D) Fatty acid.	
32.	Normal blood pressu	ire range is				
	(A) 120/80	(B) 100/60	(C)	140/90	(D) 90/50	
33.	Movement of food th	rough the lower region o	ofoes	ophagus is due to		
	(A) Lubrication by sa	liva	(B)	Peristalsis		
	(C) Gravitational pull		(D)	All of these.		
34.	Heart beat originates	s from :-				
	(A) Left atrium		(B)	Right ventricle		
	(C) Pacemaker		(D)	Cadiac muscles		
35.	The white matter in a	a bird's dropping is :-				
	(A) Calcium carbona	ite	(B)	Calcium sulphate		
	(C) Uric acid		(D)	Urea		
		Space for ro	ugh w	ork		

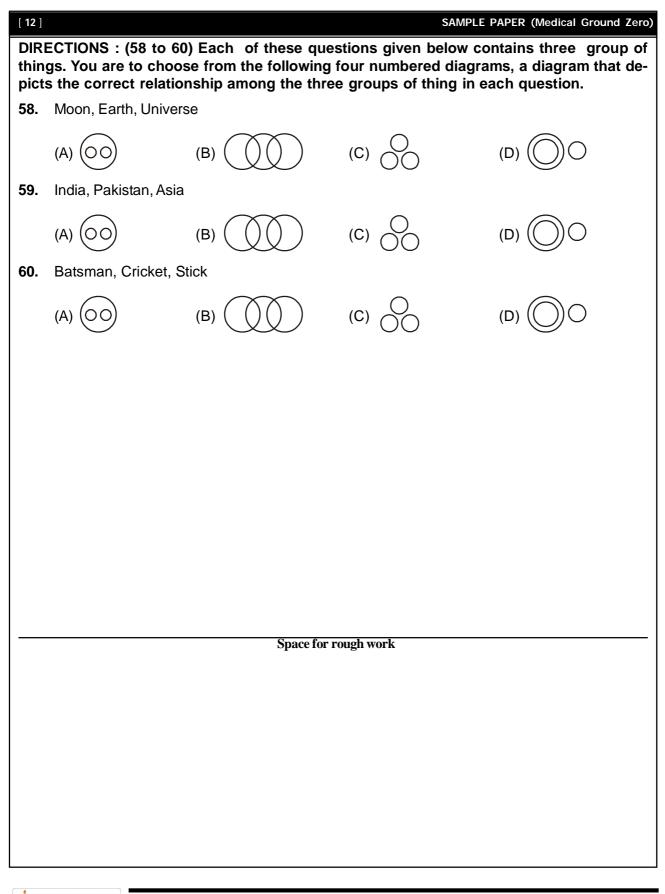
[8]			SAN	IPLE PAPER (Medical Ground Zero)
36.	The directional mo	vement or orientation	of a plant part in respo	nse to light is termed
	(A) Chemotropism	1	(B) Phototropisn	n
	(C) Thigmotaxis		(D) Photoperiodi	sm.
37.	Which is the corre	ct sequence of the cor	nponents of a reflex a	rc?
	(A) Receptors \rightarrow	muscles $ ightarrow$ sensory n	euron \rightarrow motor neuro	on \rightarrow spinal cord
	(B) Receptors \rightarrow	motor neuron \rightarrow spina	al cord \rightarrow sensory neg	uron \rightarrow muscles
	(C) Receptors \rightarrow	spinal cord \rightarrow sensor	y neuron \rightarrow motor neg	uron \rightarrow muscles
	(D) Receptors \rightarrow	sensory neuron \rightarrow sp	inal cord \rightarrow motor neg	uron \rightarrow muscles
38.	Cerebral hemisphe	eres are the centres of		
	(A) Posture and ec	quilibrium	(B) Reflex action	IS
	(C) Thinking and m	nemory	(D) All of these	
39.	Where does fertiliz	zation occur in human	females?	
	(A) Uterus	(B) Cervix	(C) Oviduct	(D) Vagina
40.	Identify the followir	ng organism.		
			RF-	
	(A) Rhizobium	(B) Rhizopus	(C) Rhizoid	(D) Mushroom
		Enocof	or norsh more	
		Space	or rough work	

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11.	Match the label	ed parts of the given	figure with the corr	ect option.				
		E	A D D					
	Α	в	C	D	E			
	(A) Ovary	Thalamus	Filament	Sepal	Anther			
	(B) Ovary	Thalamus	Style	Sepal	Anther			
	(C) Ovule	Sepal	Style	Thalamus	Filament			
	(D) Ovule	Sepal	Style	Thalamus	Stamen			
42.	Oral contracept	ives prevent						
	(A) Fertilization		(B) Ovul					
		sperms in vagina	(D) All of	fthese				
43.	-	th two unlike genes fo			Dominenterrist			
44.	(A) Homozygou Mendel conduc	is (B) Heterozyg ted his famous breed			Dominant variety.			
	(A) Drosophila	(B) Pisum sati		-	all of these.			
45.	., .							
	The crossing of a homozygous tall plant with a dwarf would yield plants in the ratio of (A) Two tall and two dwarf							
	(B) One homoz	ygous tall, one homo	zygous dwarf and	two heterozygous	tall			
	(C) All homozyg	-						
	(D) All heterozy	gous tall.						
		Spa	ace for rough work					

[10]			SAMPLE	PAPER (Medical Ground Zero)
		PART-D : MEN	TAL ABILITY	
Finc	the missing numbe	er:		
46.	78 ? 97 43 67 58 35 13 39			
	(A) 84	(B) 80	(C) 54	(D) 48
47.	$3 \frac{6}{5} 6 4 \frac{3}{3} 5$	$3 \begin{array}{c} 0 \\ ? \\ 4 \end{array} 7$		
	(A) 4	(B) 9	(C) 6	(D) 8
48.	$4 \underbrace{5}_{7}^{8} 6 18 \underbrace{7}_{10}^{12} 9$	$13\underbrace{\begin{pmatrix}11\\6\\7\end{pmatrix}}_{7}$		
	(A) 9	(B) 8	(C) 6	(D) 5
49.	If in a code languag language ?	e MENTAL is coded as	417253, then how is TE	EN & ANT coded in that
	(A) 572,271	(B) 217,527	(C) 572, 217	(D) 217, 572
50.	If REASON is codec	as 5 and BELIEVED as	7, what is the code num	ber for GOVERNMENT ?
	(A) 6	(B) 8	(C) 9	(D) 10
51.	If E = 5 & SAFE = 3	1, then PINK = ?		
	(A) 41	(B) 40	(C) 50	(D) 65
		Space for r	ough work	

SAMPI	LE PAPER (Medical Groun	d Zero)			[11]
52.	walks 30 metre. The	n moves 25 metre to his	right	. He then turns to h	then turns to his left and his right again and walks direction is he now from
	(A) South-West	(B) South	(C)	North-West	(D) South-East
53.					wards South. Then, he reference to his starting
	(A) 5 km, North	(B) 5 km, North-East	(C)	7 km, East	(D) 7 km, West
54.	•	•		•	alked another two paces ich direction was he last
	(A) East	(B) North	(C)	South	(D) None of these
55.	• • •	raph, a man says to his '. How is the girl in the pl		•	nd-daughter of the elder man?
	(A) Niece	(B) Sister	(C)	Aunt	(D) Sister-in-law
56.		he photograph. Amar sa w is the girl's mother rel			er is the only son of my
	(A) Mother	(B) Sister	(C)	Sister-in-law	(D) Grandmother
57.	T is the son of P.S. to T ?	is the son of Q. T is ma	arried	to R. R is Q's dau	ughter. How is S related
	(A) Brother	(B) Uncle	(C)	Father-in-law	(D) Brother-in-law
		Space for ro	ugh w	ork	



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				NER K	EYS		
		SA	MPLE	TEST	PAPE	R	
	(F	or Studer	nts Goir	ng to Cla	ass 11™	IN 2025	5)
<u>S</u>	STREAM : M	EDICAL <u>C</u>	OURSE	OFFERE	<u>ED</u> : MED	ICAL GRO	
4	(A)	2		PHYSICS		4	(D)
1. 5	(A) (C)		(A)		(D)		(B)
э. 9.	(C) (D)		(C) (B)	7. 11.	(A) (D)		(D) (C)
9. 13.	(D) (A)	10.		11.		12.	(0)
10.	(~)		(~)	10.	(8)		
			CH	HEMISTRY	(
16.	(C)	17.	(D)	18.	(D)	19.	(C)
20.	(D)	21.	(A)	22.	(A)	23.	(B)
24.	(A)	25.	(B)	26.	(C)	27.	(B)
28.	(C)	29.	(A)	30.	(A)		
			F	BIOLOGY			
31.	(C)	32.	(A)		(B)	34.	(C)
35.	(C)		(B)		(D)		(C)
39.	(C)		(B)		(B)		(B)
43.	(B)		(B)		(D)		
				TAL ABIL	ITV		
46.	(B)	47.			(D)	49	(D)
- 50.	(C)	51.			(D)		(B)
54.	(O) (A)	55.			(A)		(D)
58.	(A)	59.			(D)		. ,
	. /		、 /		. /		