

GravIITy Academy Talent Hut Award Scholarship cum Entrance Exam (GATHA)

Dur	ation:	1.30 min	NEET 2024 - Sampl	le Paper	Total Marks: 200			
	1) 2) 3) 4) 5)	structions to Candidates: This booklet is your question paper. Answer is to be marked on the OMR sheet provided.						
	PHYSICS SECTION							
	1.	A car starting from rest acceler travelled by car in this time. (a) 60 km	rates uniformly to acquire space (b) $6 km$	peed of 20 km/hr.in 30 mi (c) 5 km	nute the distance (d) 10 km			
	2.	Action and reaction acts on the (a) Same body on opposi (c) Different bodies but i	te direction	(b) Different bodies but in opposite direction (d) Same body in same direction				
	3.	SI unit of density istime (a) 10^{-3}	es C.G.S unit of density. (b) 10 ³	(c) 10 ²	(d) 10 ⁻²			
	4.	The normal atmospheric pressu (a) 76 m of Hg	re is (b) 76 cm of Hg	(c) 76 Pa	(d) 76 Nm ²			
	5.	When ball is thrown upwards, (a) Increases	its total energy. (b) decreases	(c) remains same	(d) None of these			
	6.	The frequency of sound waves (a) Same as that of frequency (c) More than frequency	ency of source.	(b) Less than frequency of source.(d) None of these				
	7.	A ray is incident on plane mirr incidence is . (a) 0°	or, its reflected ray perpend (b) 45°	licular to the incident ray, (c) 90°	then its angle of (d) None of these			
	8.	The correct Len's formula is	(b) $\frac{1}{u} - \frac{1}{u} = \frac{1}{f}$					
	9.	Electromagnets are made up of (a) Steel		(c) Soft iron	(d) Aluminum			
	10.	When a current I flows uniform (a) 1Rt	only through resistance R for (b) I^2R/t	time t, the electrical energian (c) IR^2t	gy spent is given by (d) I^2Rt			
	11.	. A light ray is incident norm (a) 135°	nally on a plane mirror. The (b) 90°	e angle of reflection will be (c) 45°	e_ (d) 0°			
	12.	Kinetic energy of a body depe (a) Its mass only	nds on (b) Its speed only	(c) Its mass and speed	(d) Neither mass nor speed			
	13.	1 <i>KWH</i> is equal to (a) 3.6 J	(b) 3.6 MJ	(c) 3.6 MJ	(d) 36 J			
	14.	A fluid exerts pressure						

(a) In all directions

(a) Force

15.

(c) In downward direction only

Newton's second law of motion gives as a measure of

(b) inertia

(d) acceleration

(b) In upward direction only

(d) None of these

(c) mass

30.is not a sublimate

a) Camphor

b) Sugar

c) Iodine

CHEMISTRY SECTION 16. Octet rule is NOT violated in case of: b) boron trifluoride c) sulphur hexafluoride d) aluminium chloride a) methane ------ showed that the atomic number is fundamental property of an element and not its atomic mass 17. a) Doberiner b) Newlands c) Mendeleev d) Moseley 18. Calcium carbonate is heated. The reaction is an example of----- reaction. b) Displacement a) Decomposition c) Double displacement d) Combination 19. The formula of gypsum is ----c) $Ca.SO_4.\frac{1}{2}H_2O$ b) $CaSO_4$. $2H_2O$ a) $CaSO_4$. H_2O d) $CaSO_4$ 20. Volume of a gas at N.T.P. is 1.12×10^{-7} cc. Calculate the no, of molecules in it. a) 3.01×10^{20} b) 3.01×10^{12} c) 3.01×10^{23} d) 3.01×10^{24} When -----is passed through fresh lime water, it turns milky. 21. a) H_2 c) CO2 d) SO2 A solution of-----in water is blue in colour. 22. a) CuSO₄ b) FeSO₄ c) ZnSO₄ d) $Al_2(SO_4)_3$ 23. A redox reaction is a reaction in which ----a) Oxidation take place. b) Reduction take place c) Neither Oxidation nor reduction takes place. d) Oxidation and reduction both takes place simultaneously 24. Which of the following has more electrons than neutrons? a) Al^{3+} b) C c) 0^{2-} d) F is called -----25. c) Ketonic group a) Carboxylic acid group b) aldehyde group d) alcohol group 26.is an example of homogeneous mixture. a) Sand and Water b) Flour and water c) Salt dissolved in water d) Oil and water 27. What is the mass ratio by which Iron and Sulphur combine on heating to form Iron Sulphide, i.e., FeS? (Atomic masses \rightarrow Fe = 56, 5 = 32) a) 4:7c) 1:1d) 7:4 28.is a combination reaction. b) $H_2 + Cl_2 \longrightarrow 2HCl \uparrow$ a) $2HgO \xrightarrow{h} eat \rightarrow 2Hg + O_2 \uparrow$ d) $CaCO_3 \longrightarrow_{heat} \rightarrow CaO + CO_2 \uparrow$ c) $Cu + H_2SO_4 \longrightarrow CuSO_4 + H_2 \uparrow$ 29. Density = b) mass / volume c) volume / mass d) weight / volume a) mass \times volume

d) Ammonium Chloride

BIOLOGY SECTION

31.	Mahesh was absent in the class exercise he had done yesterday (a) Formation of Lactic at (c) Formation of Pyruvic	y acid	which he claims to be due to excess physical (b) Formation of Acetic acid (d) Formation of Hydrochloric acid		
32.	An insect which transmits a di (a) Inter mediate host	sease is known as(b) Parasite	(c) Vector	(d) Prey	
33.	The transport of soluble produ vascular tissue called (a) Sclerenchyma	ct of photo synthesis is call (b) Xylem	ed translocation and it occ (c) phloem	urs in the part of the (d) Cholenchyma	
34.	Which is not a component of r (a) Phagocytosis	nutrition in Amoeba? (b) Intracellular digestion	(c) Saprophytic	(d) Exocytosis	
35.	In human each kidney has larg structure present which can ab (a) Convoluted tubule				
36.	High concentration of which g (a) Oxygen	as will not cause air-pollut (b) Nitrogen dioxide	ion? (c) Carbon dioxide	(d) Carbon Monoxide	
37.	Raju had fight with some othe to comma, According to you v (a) Hypothalamus			had suddenly went (d) Medula oblongata	
38.	Petroleum is formed from (a) Domestic animal	(b) Organism of sea	(c) Wild animals	(d) Forest trees	
39.	All type of plant life is known (a) Fauna	as (b) Flora	(c) Forest	(d) Wild life	
40.	In which type of reproduction (a) Budding	gametes are formed? (b) Fission	(c) Sexual	(d) Regeneration	
41	is energy giving nutri (a) Carbohydrate	ent. (b) Protein	(c) Mineral	(d) Vitamin	
42	(a) Chemotropism	or parts in response to certa (b) Phototropism	in chemicals. (c) Gravitropic	(d) Photoperiodic	
43.	In frog secretion stimular (a) Adrenal	lates the metamorphosis fro (b) Liver	om tadpole larva to adult fr (c) Pancreas	rog. (d) Thyroid	
44	is not a part of flower (a) Anther	er. (b) Stigma	(c) Petiole	(d) Ovary	
45.	Ovary secretes the hormone (a) Insulin	(b) Testosterone	(c) Glucagon	(d) Estrogen	
46	is connecting link b (a) Peripatus	etween Annelida and Arthr (b) Platypus	opods. (c) Lung fish	(d) Archeopteryx	
47	is primary pollutant. (a) SO ₃	(b) O ₃	(c) Hydrogen Cyanide	(d) Ash	
48.	The genotype of human female (a) 44 + XX	e is (b) 44 + XY	(c) 22 + XX	(d) 22 + XY	
49	is dominant trait in p (a) Wrinkled seeds	pea plant. (b) Terminal flowers	(c) Dwarf plant	(d) Violet flower	
50.	Saliva containsenzyr (a) Amylase	ne. (b) Lipase	(c) Trypsin	(d) Gastrin	

ANSWER KEY

Q. No.	Ans						
1	С	16	A	31	A	41	С
2	В	17	D	32	С	42	D
3	A	18	A	33	В	43	С
4	В	19	В	34	D	44	A
5	С	20	С	35	С	45	В
6	A	21	С	36	A	46	С
7	В	22	A	37	D	47	A
8	A	23	D	38	В	48	D
9	С	24	С	39	В	49	С
10	D	25	A	40	С	50	A
11	D	26	С				
12	С	27	D				
13	С	28	В				
14	A	29	В				
15	A	30	В				