

ACADEMIC SESSION 2023-25 Sample Test Paper Resonance National Entrance Test (Admission Cum Scholarship) Target : NEET 2025 Course Name SAKSHAM Class : XI Course Code MA Duration : 90 Min. Max. Marks : 200 Pattern : Single Option Correct (+4, -1) Total No. of 0. 50 (Physics : 10 Question, Chemistry : 10 Question, Mathematics : 10 Question, Biology : 20)

Resonet Syllabus for 10th to 11th moving students

PHYSICS : Ray optics : reflection, plane and spherical mirror. Refraction , Lenses and prism. Current electricity : Ohms law, Resistivity, Combination of resistor, Ammeter, Voltmeter, heating effect of current. Magnetic effect of current. Kinematics : Motion on straight line, displacement and distance , average velocity. Acceleration. graphs for rectilinear motion. Motion under gravity. Heat : Temperature, its various units and their relationship. Specific heat capacity. Latent heat of fusion and vaporization, principle of calorimetry.

CHEMISTRY : Matter, Mole concept, Periodic classification, Acid base and salt, Metal and non metals, (Metallurgy) Carbon and it's compounds, Chemical reaction and equations, Atoms and molecules

MATHEMATICS : Real numbers and polynomials ,Quadratic Equations ,Trigonometry ,Arithmetic progression.Geometry.

BIOLOGY : Animal diversity / classification, Plant diversity / classification, Reproduction (Plant & Animal) Heredity / Genetics, Tissue (plant & animal), Transport in plants & Animals, Co-ordination in human being (nervous system, endocrine system)

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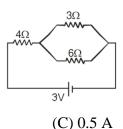
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Section-I (Physics)

1. Find current supplied by the 3 Volt cell in the circuit

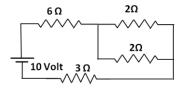


(D) 4/3 A

(D) 5W

2. For the circuit shown in fig find power developed in 3 Ω resistor

(B) 3 A



(A) 100/3 W (B) 30 W (C) 3W

3. An object of height 2cm is placed perpendicular to principal axis at distance 30 cm from pole of a convex lens(f=20 cm) then its image will be

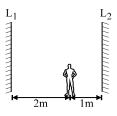
(A) real and of height 4 cm

(A) 1 A

(B) real and of height 1 cm

(C) Virtual and of height 4 cm

- (D) Virtual and of height 1 cm
- 4. Two mirrors labeled L_1 for left mirror and L_2 for right mirror in the figure are parallel to each other and 3.0 m apart. A person standing 1.0 m from the right mirror (L_2) looks into this mirror and sees a series of images. The second nearest image seen in the right mirror is situated at a distance:



(A) 2.0 m from the person(C) 6.0 m from the person

(B) 4.0 m from the person(D) 8.0 m from the person

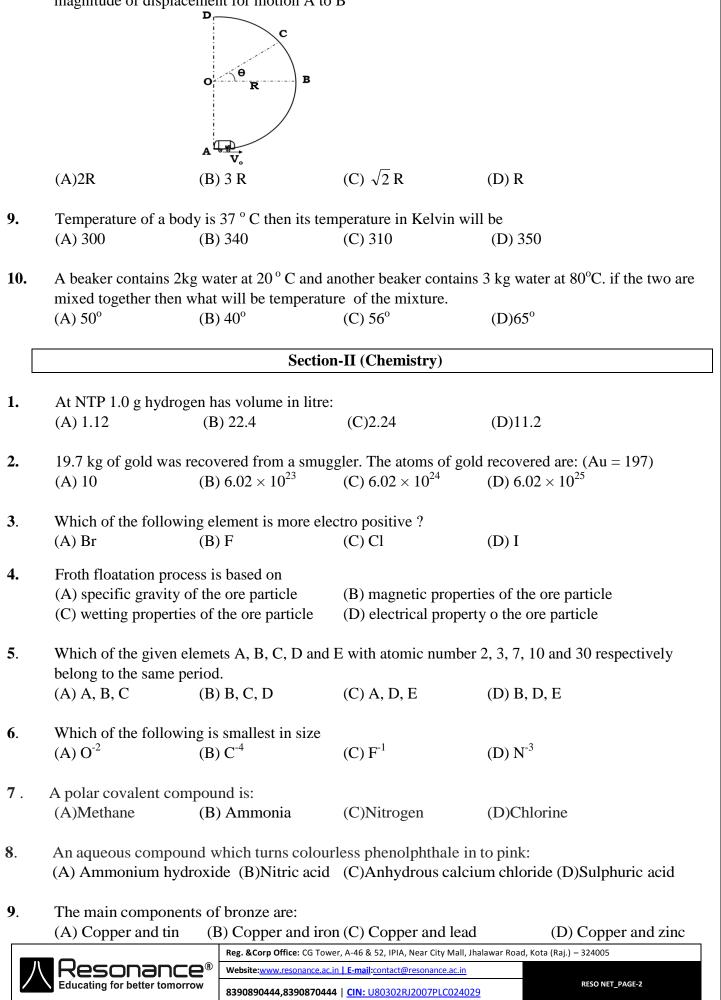
A particle travels from point A to B in a straight line with uniform speed of 60 km/hr. It immediately returns back from B to A with uniform speed of 40 km/hr. Find average velocity and average speed of particle over the whole journey.
 (A) 0, 48 km/hr. (B) 0, 50 km/hr.

(A) 0, 48 km/hr (B) 0, 50 km/hr (C) 48 km/hr, 0 (D) 20 km/hr, 50 km/hr.

- 6. When a ball is thrown up vertically with velocity V_0 , it reaches a maximum height of 'h'. If one wishes to triple the maximum height then the ball should be thrown with velocity (A)2V_0 (B) 3 V_0 (C) $\sqrt{3} V_0$ (D) V_0
- 7. A car starts moving with acceleration 2 m/s^2 for 10 sec then move with constant velocity find displacement in $1^{\text{st}} 20 \text{ sec}$

(A) 500 m	(B) 400 m	(C) 300 m	(D)350 m		
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8. A car is moving on a semicircular track ABCD of radius R with constant speed V_o as shown. Find magnitude of displacement for motion A to B



10.		-	placeable hydroger)Hydrochloric acid		d (D)Carbonic acid		
Γ	Section-III (Math)						
1.	$\frac{3}{5} + \frac{5}{4} = \dots?$						
	(A) $\frac{8}{9}$	(B	$)\frac{37}{9}$	(C) $\frac{39}{20}$	(D) $\frac{37}{20}$		
2.	If $3x + 2$ (A) 2	2y = 7 & 4x - y = (B)	2 then find value o	f(x+2y) = ? (C) 7	(D) 5		
3.	$\frac{a^3 + b^3}{a + b}$ (A) a^2) $a^2 + b^2$	(C) $a^2 + ab + b^2$	(D) $a^2 - ab + b^2$		
4.	In the diagram AB is a diameter, 'O' is the center of the circle and $\angle OCB = 50^\circ$, then find $\angle DBC$.						
	(A) 80 ⁰	(B	$A \xrightarrow{40^{\circ} 0}_{C}$	в (C) 120 ⁰	(D) 140 ⁰		
5.	(A) 80^0 (B) 100^0 (C) 120^0 (D) 140^0 Match the following: Object has radius R						
	PVolume of a cylinder of height 3RI. $2\pi R^2$						
	Q	QVolume of a sphereII. $\frac{4\pi}{3}R^3$		$\frac{4\pi}{3}R^3$			
				III	$3\pi R^3$		
	R	Outer surface a	rea of a sphere	IV. V	$\frac{2\pi R^3}{4\pi R^2}$		
			-	(C) P-III,Q-II,R-IV	$\sqrt{(D) P-IV,Q-II,R-I}$		
6.	The greater between $\sqrt{19} - \sqrt{14} & \sqrt{12} - \sqrt{7}$ (A) $\sqrt{19} - \sqrt{14}$ (B) $\sqrt{12} - \sqrt{7}$ (C) Both are equal (D) Can't say.						
7.	If $cosA + cos^2A = 1$ then the value of $sin^2A + sin^4 A$ is						
	(A) 1		(B) $\frac{1}{2}$	(C) 2	(D) 3		
	If $(2x+1) > 5$ and $(x-1) < 9$ then which of the following could not be value of x						
8.		(1) > 5 and $(x-1)$					
8.	If $(2x + (A) 1)$	(1) > 5 and $(x-1)$	(B) 4	(C) 7	(D) 8		
8.		(1) > 5 and $(x-1)$	(B) 4	(C) 7			

9.	The quadratic equation ax^2 -	+ bx $+$ c $=$ 0 will have 1	real and distinct roots i	f			
	$(A) b^2 - 4ac < 0$	(B) $b^2 - 4ac > 0$		(D) all of these.			
10.	The first term of an A.P is 5 (A) 13	, the last term is 45 and (B) 11	d the sum is 400. Then (C) 15	the fourth term of A.P is (D) 14.			
	(A) 15	(b) 11	(C) 13	(D) 14.			
	Section-IV (Biology)						
1.	Special feature of dividing c	ells is –					
	(A) large lacuna(B) thick cell walls(C) dense cytoplasm devoid of lacuna(D) large intracellular spaces						
2.	The muscle which work thro	ough out life without u	ndergoing fatigue is –				
	(A) striated muscle	(B) nonstriated musc		nuscle (D) all			
3.	Which hormone would be se	ecreted when a mad do	g is running after you				
	(A)Testosterone	(B) Adrenaline	(C) Thyroxine	(D) Thymosin			
4.	The largest part of brain is						
т.	(A) Corpora quadrigemina	(B) Medulla oblonga	uta (C) Cerebellum	(D) Cerebrum			
5.	Seminiferous tubules are co	*					
	(A) spermatogonia	(B)glandular epitheli	ium(C) sensory epithel	ium(D) germinal epithelia			
6.	The roots of some plants car	n give rise to new plant	ts. Select correct one fi	com the following –			
	(A) Potato	(B) Bryophyllum	(C) Sweet potato	(D) Turmeric			
7	Locomption by type fact is t	found in which phylum					
7.	Locomotion by tube feet is f (A) Mollusca	(B) Echinodermata	(C) Coelenterata	(D) Annelida			
		(2) 200000000000000000000000000000000000	(0) 000000000	(2)			
8.	Flowering plants are include						
	(A) cryptogams	(B) phanerogams	(C) bryophytes	(D) pteridophytes			
9.	The phenomenon of uptake of water at the expense of energy by the cell and usually against the						
	osmotic gradient is known as :						
	(A) active absorption	(B) passive absorption	on (C) osmosis	(D) diffusion			
10.	A recessive trait in garden p	ea is :					
	(A) Wrinkled seeds	(B) Tall stem	(C) Round seeds	(D) Coloured seed coat			
11.	A girl has blood group A and her brother has blood group B. Which combination of genotypes ca						
11.	not belong to their parents		Four D. Which com	omation of genotypes can			
	$(A) I^A I^B, I^A I^A$	$(B) I^{A} I^{B}, I^{A} I^{B}$	$(C) I^{O} I^{O}, I^{A} I^{B}$	$(D) I^{B} I^{O}, I^{A} I^{O}$			
12.	Where is pituitary gland loc	•					
	(A)On the sides of trachea	(B) Near the Heart	(C) In the brain	(D) Above the kidneys			

13.	Statement 1 : We should plant eucalyptus trees along all sewage ponds.							
	Statement 2 : Eucalyptus trees absorb all surplus waste water rapidly and release pure water vapour into the atmosphere.							
	(A)Statement 1 is true but Statement 2 is false							
	(B)Both statement 1 and 2 are true and statement 2 is the correct explanation of statement 1							
	(C)Both statement 1 and 2 are true but statement 2 is the not correct explanation of statement 1							
	(D) Both statements 1 and 2 are false							
14.	The sensation of sight in human brain is perceived by(A)Optic lobe(B)Occipital lobe(C)Frontal lobe(D)Parietal lobes							
15.	The embryo sac of a typical dicot at the time of fertilization isA) 8 Celled(B) 6 Celled(C)7 Celled(D) 5 Celled						(D) 5 Celled	
16.	In snapdragon, when red flowers crossed with white flowers then ratio of pink flowers and white flowers in the F ₂ progeny is (A)10% red (B)red & white in 3:1 ratio (C)pink and white in 1:1 ratio (D)pink and white 2:1 ratio						1 ratio	
17.	Which type of white blood cells are concerned with the release of histamine and the natural anticoagulant heparin?(A) Neutrophils(B) Eosinophils(C) Basophils(D) Monocyte							
18.	A touch on the right hand stimulates neurons in(A) Left somatic sensory area(B) Right somatic sensory area(C) Temporal area(D) Both (A) and (B)						•	
19.	In Whittaker's classification, unicellular organisms are grouped under (A) Protista (B) Porifera (C) fungi (D) protozoa							
20.	Natural parthenogenesis occurs in (A) Honey bee (B) frog			(C) Humans ((D) rabbit	
	Answer key: Physi1.C2.C3.A		A 6.C	7.C	8.C	9. A	10.C	
	Answer key: Chen 1. D. 2.D. 3.D.	•	B 6.C	7.B	8.A	9.A	10.D	
	Answer key: Math 1.D 2.D 3.D	s 4.B 5.	B 6.B	7.A	8.A	9.B	10.A	
	Answer key: Biolo					. .		
	1. C 2.C 3.B 11.A 12.C 13.B	4.D 5. 14.A 15	D 6.C 5.C 16.D	7.B 17.C	8.B 18.A	9.A 19.A.	10.A 20.A	

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