

Section-A

Multiple Choice Questions (MCQ's)

Choose the correct answer for each from the given options: Q.1 (i)

According to Einstein's Quantum Theory light travel in the form of:

(a) Waves

(b) Carpuscles

(c) Energy packets

(d) None of these

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(11)	At .5. I.P pure water	DOIS at.		
	(a) 0K	(b) 100K	(c) 273K	(d) 373K
(iii)	S.I unit of tension in	a string is:		
70 50	(a) Pound	(b) Newton	(c) Kilogram	(d) Joule
(iv)	Right hand rule is used to find the direction of:			
			(c) Force (d) Voltage	
(v)	is concerned with the structure and properties of an atom.			
1.7		(b) Plasma Physics		
Physic		(a)	(0) 1 1011110 1 113	oloo (a) Haoloai
(vi)		nan contributed in mak	ing Pakistan a	State
/	(a) Islamic	(b) Nuclear	(c) Democracy (d) Welfare	
(vii)	s the fire	(b) Nuclear st equations of motion.	(c) Democracy	(d) Worldie
(*)	(a) 1/2 - 1/2 - 0	(b)	(c) a v. 1	2 (d) 1/2 1/2 - 200
	(4) $V_f = V_i + 2as$	(b) $V_f = V_i + at$	$(0) S = V_1 t + \frac{1}{2}$	$at^{\alpha}(\alpha)v_f - v_i = 2as$
(Viii)	The canability of a fo	orce to rotate a body al	hout a point is ca	llad
(•)	(a) Couple	(b) Torque	(c) Equilibrium	(d) Motion
(iv)	The mass of Farth n	nay be determined with	the beln of	law of Universal
Gravit	ation	nay be determined with	ruje neib oi	law or or inversar
Olavia	(a) Royle's	(b) Newton's	(c) Charle's	(d) Coulombia
(x)	One form of energy	can be converted into	another form of o	norgy but total
	nt of energy remains		anouner form of e	nergy but total
amoui	(a) Motion	(b) Rest	(a) Constant	(d) Name of these
(vi)	A strong wooden or	motollic bar which can	he reteted about	(a) None or these
(11)	A strong wooden or	metallic bar, which can	be rotated abou	t a point is called a
	(a) I and	(b) Effort V	(a) Constant	(d) Niana af these
(wii)	The atmosphere is the	(b) Effort	(c) Constant	(a) None of these
(XII)	the authosphere is u	he blanket of air around	u the Earth. It ext	ends up to about
above	the surface of the Ea	rth. (b) 1500 Km	/-\ 0000 I/	(-I) OFOO I/
(viii)	(a) 1000 Kill	(D) 1500 Km	(C) 2000 Km ((a) 2500 Km
(xiii)	d dispetion	force that pushes an o	bject immersed i	n a liquid in the
	d direction.	/L\KE	(-\ DE	
		(b) K.E	(c) P.E	d) Viscosity
(xiv)	Heat is the form of _			
	(a) Energy	(b) Work		(d) Sound
(xv)	12,112,112,113,111	piece of transparent ma	경기 교육장에 가면 이 경기 때문	20025 N
	(a) Lens	(b) Fibers		(d) Plastics
(xvi)		er reflection from a sur	(4) (4) (1) (4) (4) (5)	
	(a) Echo	(b) Pitch	(c) loudness (d) Quality
(xvii)	"G" is called	•	ES MONOY del mon	
	(a) Gravitational acceleration		(b) Gravitational force	
(6)	(c) Gravitational cons	c) Gravitational constant (d) None of these		se
		Section-B	ste Ze	
(Short Answer)				
Note:	Answer any Eight of	the following question	ns. Each questi	on carries 05 marks.
Q.2	What is the significan	nt work of Dr. Abdul Qa	deer Khan in the	field of nuclear
science	e?			

Q.3 The radius of Hydrogen atom is 0.53 x 10-10 m convert it in cm, m, nm.

- Q.4 How can we determine the mass of Earth?
- Q.5 What is atmospheric pressure? How will you measure it?
- Q.6 What do you mean by anomalous behavior/ expansion of water? How does it help the aquatic animals to save their lives in frozen seas?
- Q.7 Define reflection of light, State the laws of reflection?
- Q.8 State coulomb's law and define the unit of charge.
- Q.9 A body of mass 50 kg is moving with an acceleration of 5 ms-2. Find the force acting on the body.
- Q.10 What is Energy? How many forms of energy?
- Q.11 Differentiate between concave mirror and convex mirror.
- Q.12 Derive the equation : S = vit + ½ at2
- Q.13 What is meant by dispersion of light?

Section-C

Descriptive Answer

Note: Answer any TWO of the following questions. Each question carries 14 (7+7) marks.

- Q.14(a) Explain how the value of "g" decrease with a change n altitude.
- (b) Determine the acceleration of a car of mss 900 kg, when a net force of 2700 N acts on it.
- Q.15(a) Define Momentum. Explain the law of conservation of momentum with the help of example.
- (b) What is the power of an engine that pulls a 1000 Kg automobile at a steady speed of 10 m/sec along a level road:
- Q.16 Write notes on any TWO of the following:
 Ohm's law Thermal Expansion States of Equilibrium