IMPORTANT MCQS FOR SECTION A

IX PHYSICS

CHAPTR # 1

1:The branch of Science which deal with Matter, Energy, and their mutual relationship is called
a) Physical Chemistry
b) Biology
c) Physics
d) Chemistry
2: The famous Muslim Scientist Yaqoob Kindi worked in the field of
a) Medicine
b) Geology
c) Psychology
d) Optics
3: The branch of Physics which deal with the study of the motion of objects and how it relates to force is called a) Quantum Physics b) Cosmology c) Mechanic d) Electrostatics
4: All the measurable quantities are known as:
a) Base Quantities
b) Derived Quantities
c) Units
d) Physical Quantities
5: Electric current is a Physical quantity.

a) Derived

- b) Base
- c) Both a and b

CHAPTER # 2:

body is:

a) at rest
b) accelerated
• c) displaced
d) at motion
· · · · · · · · · · · · · · · · · · ·
2: Location of an object relative to some reference is known as
a) Position
b) Displacement
c) Velocity
• d) Speed
3: Motion of falling bodies is
a) Rotatory Motion
b) Random Motion
c) Translatory Motion
d) Vibratory Motion
4: Weight, velocity and friction are quantities.
a) Scalars
b) Vectors
c) Both a and b
d) None of these
5: For scalar quantities, we do not need to know about theof an object.
a) Weight
• b) Mass
c) Direction
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d) None of these

1: If a body does not change its position with respect to an observer we can say that the

6: A graph is a a_____ representation of information showing quantity varies with another related quantity.

- a) Symbolic
- b) Visual
- c) Audio
- d) Video

7: The shortest directed distance between two position is called_____

- a) Velocity
- b) Acceleration
- c) Distance
- d) Displacement

8: Which of the following is the S.I Unit of speed?

- a) ms⁻¹
- b) ms⁻²
- c) m²s
- d) m²s²

9: $\overrightarrow{V} = \frac{\overrightarrow{\Delta S}}{\Delta t}$ is the mathematical representation of:

- a) Acceleration
- b) Velocity
- c) Displacement
- d) Distance

10: The average acceleration is the total velocity divided by the total:

- a) Speed
- b) Mass
- c) Acceleration
- d) Time



c) Newtond) Pascal

1: The downward force with which the earth pulls a body toward its center is called
a) Mass
b) Acceleration
c) Weight
d) Momentum
2: The force which compels a body to move in a circular path, is called
a) Centripetal Force
b) Net force
c) Friction force
d) None of these
3: When a body rolls over a surface, the force of friction is called
a) Static Friction
b) Kinetic Fraction
c Rolling Friction
d) None of above
4: A physical quantity that moves or tends to move a body, stop or tends to stop a moving body is called
a) Force
b) Velocity
• c) Speed
d) Acceleration
5:The S.I unit of force is
a) Ohm
b) Joule

6: When F _{net} =0 the ΔV=0 or a=0 this represent Newton	Law of motion.
a) First	
 b) Second 	
c) Third	
d) None of these	
7: Newton second law of motion is mathematically represented as:	
, ,	
■ a) a=Fm	
■ b) F=ma	
• c) F=ma ²	
• d) F=m ² a ²	
- 5/1 5	
8: Newton law is also called the Law of Inertia.	
-) 5:	
a) First	
b) Second	
• c) Third	
d) First and Third	
9: The value of g in w=mg is:	
■ a) 7.8m/s	
■ b) 9.8m/s ²	
• c) 9.7 m/s ²	
■ d) 8.9 m/s ²	
2, 2.2, 2	
10: The product of mass "m" and velocity "v" is called	-
a) Friction	
b) Velocity	
c) Collision	
d) Momentum	

1: When we apply force with our both hands on the steering wheel of a car to turn it the force we are applying is:
a) Like a parallel force
b) Unlike parallel force
c) Both Like and Unlike Parallel
d) None of these
2: The process of spitting a force vector into two or more force vectors is called
a) Resolution of Forces
b) Addition of Forces
c) Rotation of Forces
d) None of these Forces
3: The type of motion in which all points of an object moves about a single fixed axis is called
a) Random motion
b) Trasnlatory motion
c) Rotational motion
d) Vibratory motion
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4: The point about which mass is equally distributed in all diretions is known as:
a) Center of Gravity
■ b) Mass
c) Center of Mass
d) Torque
5: The S.I unit of Torque is
• a) Nm
■ b) m/s
• c) N/m
 d) Nm²

6:Turning effect produced in a body about a fixed point due to applied force is called _____.

- a) Gravity
- b) Velocity
- c) Equaliburm
- d) Torque

7: Torque τ is mathematically represented as:

- a) τ = d/F
- b) τ=F² x d
- c) τ=F x d
- d) τ= F x d²

8:
$$\overrightarrow{F}_{net} = \overrightarrow{\sum}_{i=1}^{l=n} \overrightarrow{Fi} = 0$$

Mathematically represents:

- a) Torque
- b) First Condition of equilibrium
- . c) Second Condition of equilibrium
- d) Moment of force

9: A single point where the whole weight of an object appears to act is known as :

- a) Center of Mass
- b) Stability
- c) Couple
- d) Center of Gravity

10: The combination of two or more than two vectors to get a single vector is called_____.

- a) Addition of Vectors
- b) Subtraction of Vectors
- · c) Subtraction of Vectors
- d) Multiplication of Vectors

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CHAPTER#5	
1: Our Milky way galaxy i	s a
a) Rectangle-shaped	
 b) Square-shaped 	
 c) Disk-Shaped 	
 d) Triangle-Shaped 	
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2: Law of Universal was proposed by:

- a) Newton
- b) Stephen Hawking
- c) Einstien
- d) None of these

3: The value of gradational constant is_____

- a) 8.67 x10⁻¹¹ Nm²Kg-2
- b) 6.67×10⁻¹¹ Nm²Kg-2
- c) 7.6×10⁻¹¹ Nm²Kg-2
- d) 9.8×10⁻¹¹ Nm²Kg-2

4: _____is the the closest planet to the Sun.

- a) Earth
- b) Neptune
- c) Venus
- d) Mercury

5: Any object purposely placed into the orbit of Earth or other planets, star or Sun are termed as:

- a) Natural Satelite
- b) Artificial Satelite
- c) Planet
- d) Galaxy

OR Z	ZIAUDDIN UNIVERSITE EXAMINATION BOA
6: In circ	ular orbit a satelite has a constant trangential speed called
• a) Ar	ngular Velocity
 b) Ar 	ngular Speed
• c) Co	ontact Acceleration
 d) Or 	bital Velocity
7: The ac	celeration of bodies falling freely toward the earth is called
■ a) Gr	ravitational force
■ b) Or	bital Velocity
■ c) Gr	avitational Acceleration
- d) No	one of above
• a) In	lue of gravitational acceleration 'g' decreases as altitude: creases ecreases
■ c) Re	emain same
• d) No	one
9: Orbita height.	velocity is the velocity of a satellite that moves around the at a specific
■ a) Su	in .
, -	

- b) Moon
- c) Mercury
- d) Earth

10: The radius of Earth re is :

- a) 6.4 x 10⁶m
- b) 9.8 x 10⁶m
- c) 6.6 x 10⁻¹¹ m
- d) 6 x10⁶m

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• d) None of these

HAPTER # 6
1: When an object moves distance 'S' in the direction of applied force 'F' the work done will be:
• a) W= F/S
■ b) W=F2 x S
• c) W= F x S ²
■ d) W= Fcosθ x S
2: The SI unit of Work is
a) Joule
b) Pascal
c) Newton
• d) Meter
3: Workdone is a quantity. a) Scalar b) Vector c) Both a and b d) None of these
4: Equation E _k =½ mv ² mathematically represents:
a) Potential Energy
b) Electrical Energy
c) Mechanical Energy
d) Kinetic Energy
5: The SI Unit of Energy is
a) Newton
• b) Joule
c) Pascal



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- a) Rotatory Motion
- b) Vibratory Motion
- e) Random Motion
- d) None of these

2: A cyclist is moving with a uniform acceleration of 3 m/s² how much tir required to change velocity from 6 m/s to 12 m/s?

- a) 18 sec.
- b) 12 sec:
- c) 2 sec
- d) 3 sec:

3: Mechinics deals with the study of motion of object:

- a) With force
- b) Without force
- c) Due to frection
- d) Both a and b

4: A man covered 78 m distance in 30 sec what will be the speed of mani-

- a) 2.6 m/s
- b) 5.2 m/s
- c) 78 m/s
- d) 30 m/s

5:A butterfly flight in a garden what type of motion will follow?

- a) Curved motion
- b) Vibratory motion
- c) Random motion
- d) Both a and c

1: Plasma exists in the where thermonuclear reactions take place at very high temperatures.
 a) Earth b) Moon c) Sun d) Mercury
2: In solid objects the attractive forces between the molecules are:
 a) Weak b) Strong c) Less than Liquids d) Less than Gases
3: The mass of substance per unit volume is called a) Pressure b) Stress c) Strain d) Density
4: In System Internation the unit of density is:
 a) Kgm² b) Kgm² c) Kgm³ d) Kgm⁻¹

5: Pressure exerted by the atmosphere is known as :

- a) Atmospheric Pressure
- b) Internal Pressure
- c) External Pressure
- d) None of these

a) Temperature
b) Heat
c) Internal Energy
d) None of these

2: In Fahrenheit scale, the ice point is marked as 32 $^{\circ}\text{F}$ and the stream point is marked as:
■ a) 210 °F
■ b) 220 °F
• c) 212 °F
 d) 100 °F
3: The increase in length of a substance due to a rise in temperature is called
a) Linear thermal Expansion
b) Volume thermal expansion
c) Both
d) None of above
4: The S.I unit of specific heat capicity is:
■ a) JKg²K²
■ b) JKg ⁻¹ K ⁻²
■ c) JKg ⁻¹ K ⁻¹
d) None of these
5: The amount of heat required to convert the liquid state of mass to gases state of mass is
called
a) Critical Heat
■ b) Highest Heat
c) Lowest Height
d) Latent Heat

1: The thermal energy transferred from a hotter body to a cooler body is called_____.

1: Heat is transferred in the form of _____

\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
a) Wave
b) Potential Energy
c) Energy
d) Kinetic Energy
2: Heat is transferred frombodies.
a) Hot to Cold
b) Cold to Cold
c) Cold to Hot
d) Hot to Hot
•
3: The normal human body temperature is
3: The normal human body temperature is a) 37 °F
■ a) 37 °F
 a) 37 °F b) 25 °F
 a) 37 °F b) 25 °F c) 212 °F
 a) 37 °F b) 25 °F c) 212 °F
 a) 37 °F b) 25 °F c) 212 °F
 a) 37 °F b) 25 °F c) 212 °F
 a) 37 °F b) 25 °F c) 212 °F d) 98 °F
 a) 37 °F b) 25 °F c) 212 °F d) 98 °F 4: Which color of the material is a good absorber and emitter of heat?
 a) 37 °F b) 25 °F c) 212 °F d) 98 °F 4: Which color of the material is a good absorber and emitter of heat? a) Black
 a) 37 °F b) 25 °F c) 212 °F d) 98 °F 4: Which color of the material is a good absorber and emitter of heat? a) Black b) White
 a) 37 °F b) 25 °F c) 212 °F d) 98 °F 4: Which color of the material is a good absorber and emitter of heat? a) Black b) White c) Red

- a) Solid
- b) Liquid
- c) Gase
- d) None of these

5: Which of the following is the best heat conductor?