

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future
CORRECT ANSWER SOLVED BY HADI
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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

Of the following situations, which one is impossible?

Answer (Please select your correct option)

- ☐ A body having velocity east and acceleration east
- ☐ A body having velocity east and acceleration west
- ☐ A body having constant velocity and variable acceleration
- ☐ A body having constant acceleration and variable velocity

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

A plane traveling north at 200m/s turns and then travels south at 200m/s. The change in its velocity is:

Answer (Please select your correct option)

☐ 400m/s north

☐ 400m/s south

☐ zero

☐ 200m/s south

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

The inertia of a body tends to cause the body to:

Answer (Please select your correct option)

☐ speed up

☐ slow down

☒ resist any change in its motion

☐ fall toward Earth

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

A car travels east at constant velocity. The net force on the car is:

Answer (Please select your correct option)

☐ east

☐ west

☐ down

☐ zero

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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

A ball is thrown upward into the air with a speed that is greater than terminal speed. It lands at the place where it was thrown. During its flight the force of air resistance is the greatest:

Answer (Please select your correct option)

☒ just after it is thrown



☐ halfway up

☐ at the top of its trajectory

☐ halfway down

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

An object moves in a circle at constant speed. The work done by the centripetal force is zero because:

Answer (Please select your correct option)

- ☐ the displacement for each revolution is zero
- ☐ the average force for each revolution is zero
- ☐ there is no friction
- ☐ the centripetal force is perpendicular to the velocity

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

A 6.0-kg block is released from rest 80m above the ground. When it has fallen 60m its kinetic energy is approximately

Answer (Please select your correct option)

☐ 4800 J

☐ 3500 J

☐ 1200 J

☐ 120 J

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

The momentum of an object at a given instant is independent of its:

Answer (Please select your correct option)

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☐ acceleration

☐ mass

☐ speed

☐ inertia

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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

The center of mass of the system consisting of Earth, the Sun, and the planet Mars is:

Answer (Please select your correct option)

- ☐ closer to Earth than to either of the other bodies
- ☒ closer to the Sun than to either of the other bodies
- ☐ closer to Mars than to either of the other bodies
- ☐ at the geometric center of the triangle formed by the three bodies

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

A net torque applied to a rigid object always tends to produce:

Answer (Please select your correct option)

☐ linear acceleration

☐ rotational equilibrium

☐ angular acceleration

☐ rotational inertia

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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

In simple harmonic motion, the restoring force must be proportional to the:

Answer (Please select your correct option)

☐ amplitude

☐ frequency

☐ velocity

☒ displacement

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

A particle oscillating in simple harmonic motion is

Answer (Please select your correct option)

☐ in equilibrium at the ends of its path because its velocity is zero there

☐ in equilibrium at the center of its path because the acceleration is zero there

☐ never in equilibrium because it is in motion

☐ never in equilibrium because there is always a force

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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

A 160-N child sits on a light swing and is pulled back and held with a horizontal force of 100 N. The magnitude of the tension force of each of the two supporting ropes is:

Answer (Please select your correct option)

60N



94N



120N



190N



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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

Young's modulus is a proportionality constant that relates the force per unit area applied perpendicularly at the surface of an object to:

Answer (Please select your correct option)

☐ the shear

☐ the fractional change in volume

☒ the fractional change in length

☐ the pressure

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following five statements, concerning the upper surface pressure of a liquid, is FALSE?

Answer (Please select your correct option)

- ☐ It is independent of the surface area
- ☐ It is the same for all points on that surface
- ☐ It would not increase if the liquid depth were increased
- ☒ It would increase if the liquid density were increased

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Whenever an object strikes a stationary object of equal mass:

Answer (Please select your correct option)

☐ the two objects cannot stick together

☐ the collision must be elastic

☐ momentum is not necessarily conserved

☒ none of these

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following properties of a sound wave determine its "pitch"?

Answer (Please select your correct option)

☐ Amplitude

☐ Distance from source to detector

☒ Frequency

☐ Phase

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

In the MKS system, charge is measured in

Answer (Please select your correct option)

☐ Farad

☒ Coulomb

☐ Henry

☐ Tesla

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

Like charges repel, unlike charges attract. This depends upon the

Answer (Please select your correct option)

☒ strength of the two charges and the distance between them.



☐ strength of the two charges

☐ distance between the two charges

☐ none of these, given statement is irrelevant

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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

What does it mean to say that angular momentum is conserved?

Answer ([Please click here to Add Answer](#))



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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Does Archimedes' principle tell us that, if an immersed object displaces liquid weighing 10 N, the buoyant force on the object is 10 N?

Answer ([Please click here to Add Answer](#))



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- (a) What angle in radians is subtended by an arc 1.50 m in length on the circumference of a circle 2.50 m? What is this angle in degrees?
- (b) An arc 14.0 cm in length on the circumference of a circle subtends an angle of 128° . What is the radius of the circle?
- (c) The angle between two radii of a circle with radius 1.50 m is 0.700 **rad**. What length of arc is intercepted on the circumference of the circle by the two radii?

Answer (Please [click here](#) to Add Answer)



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Match the situation in column-A with the categories of stress in column-B.

COLUMN-A

(a) A cable being stretched by forces acting at its end.

COLUMN-B

(a) Bulk stress

Answer (Please [click here](#) to Add Answer)



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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Rank an automobile dashboard, seatbelt, and airbag in terms of (a) the impulse and (b) the average force they deliver to a front-seat passenger during a collision, from greatest to least.

Answer ([Please click here to Add Answer](#))



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

- (a) A 20 dB sound is twice as intense as a 10 dB sound, explain it.
- (b) The degree of Doppler shift experienced by a listener is independent of how far the listener is from a moving sound source. Is it true or wrong explain it?

Answer ([Please click here to Add Answer](#))



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