

Duration: 60 Mins

Total Marks: 11

ID: ITISKILL5976PX

Student Name: _____	Roll No: _____
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| <p><b>1.</b> What is the centre of gravity of a sphere?</p> <p>A) At the diameter                      B) At the centre<br/>C) At the radius                         D) On the circumference</p> <hr style="border-top: 1px dashed #000;"/> <p><b>2.</b> What is the name of the point at which all the weight of the body concentrated?</p> <p>A) Central point                         B) Centroid<br/>C) Initial point                          D) Centre of gravity</p> <hr style="border-top: 1px dashed #000;"/> <p><b>3.</b> What is the centre of gravity of a semi circle of diameter 12 cm?</p> <p>A) 2.75 cm                                 B) 2.54 cm<br/>C) 2.24 cm                                 D) 3.25 cm</p> <hr style="border-top: 1px dashed #000;"/> <p><b>4.</b> What is the centre of gravity of a right circular cone from its base?</p> <p>A) <math>h/2</math>                                        B) <math>h/3</math><br/>C) <math>h/4</math>                                        D) <math>h/5</math></p> <hr style="border-top: 1px dashed #000;"/> <p><b>5.</b> Which affects the centre of gravity of the object?</p> <p>A) Density                                 B) Mass<br/>C) Weight                                 D) Shape</p> <hr style="border-top: 1px dashed #000;"/> <p><b>6.</b> What is the centre of gravity of a solid hemisphere from its base?</p> <p>A) <math>3r/8</math>                                        B) <math>4r/5</math></p> | <p>C) <math>3r/4</math>                                        D) <math>r/2</math></p> <hr style="border-top: 1px dashed #000;"/> <p><b>7.</b> Which state of equilibrium's example is A cone resting on its tip?</p> <p>A) Unstable                                B) Stable<br/>C) Horizontal                              D) Neutral</p> <hr style="border-top: 1px dashed #000;"/> <p><b>8.</b> Where the centre of gravity of a circle lies?</p> <p>A) Any where on its diameter B) At its centre<br/>C) Any where on its radius            D) Any where on its circumference</p> <hr style="border-top: 1px dashed #000;"/> <p><b>9.</b> What is the centre of gravity of a rectangular body?</p> <p>A) At the corners                         B) Longer side of rectangle<br/>C) At the point of intersection of its diagonals            D) Shorter side of rectangle</p> <hr style="border-top: 1px dashed #000;"/> <p><b>10.</b> Which state of equilibrium's example is, A cone resting on its base?</p> <p>A) Neutral                                 B) Both A and B<br/>C) Un-stable                                D) Stable</p> <hr style="border-top: 1px dashed #000;"/> <p><b>11.</b> Which one of the following geometrical shapes centre of gravity lies from its base is <math>1/3</math> of its height?</p> <p>A) Rhombus                                B) Triangle<br/>C) Square                                 D) Cone</p> |
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