

August 2026

GOVT ITI BEERIHUNDI MYSORE
570026

Question Paper

Duration: 30 Mins

Total Marks: 10

ID: ITISKILL5380VM

Student Name: _____	Roll No: _____
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1. What is the name of the point at which all the weight of the body concentrated?

- | | |
|------------------|----------------------|
| A) Centroid | B) Initial point |
| C) Central point | D) Centre of gravity |

2. Which affects the centre of gravity of the object

- | | |
|------------|-----------|
| A) Shape | B) Weight |
| C) Density | D) Mass |

3. Which one of the following geometrical shape's centre of gravity lies from its base is $\frac{1}{3}$ of its height?

- | | |
|-----------|-------------|
| A) Cone | B) Rhombus |
| C) Square | D) Triangle |

4. What is the centre of gravity of a solid hemisphere from its base?

- | | |
|-------------------|-------------------|
| A) $\frac{3r}{8}$ | B) $\frac{3r}{4}$ |
| C) $\frac{4r}{5}$ | D) $\frac{r}{2}$ |

5. What is the centre of gravity of a rectangular body?

- | | |
|--|------------------------------|
| A) At the point of intersection of its diagonals | B) Shorter side of rectangle |
| C) Longer side of rectangle | D) At the corners |

6. What is the centre of gravity of a right circular cone from its base?

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|------------------|------------------|
| A) $\frac{h}{4}$ | B) $\frac{h}{5}$ |
| C) $\frac{h}{3}$ | D) $\frac{h}{2}$ |

7. Where the centre of gravity of a circle lies?

- | | |
|-----------------------------------|------------------------------|
| A) Any where on its circumference | B) At its centre |
| C) Any where on its radius | D) Any where on its diameter |

8. Which state of equilibrium's example is, A cone resting on its base?

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|--------------|------------------|
| A) Un-stable | B) Bothe A and B |
| C) Stable | D) Neutral |

9. What is the centre of gravity of a semi circle of diameter 12 cm?

- | | |
|------------|------------|
| A) 2.75 cm | B) 2.54 cm |
| C) 3.25 cm | D) 2.24 cm |

10. Which state of equilibrium's example is A cone resting on its tip?

- | | |
|---------------|-------------|
| A) Stable | B) Unstable |
| C) Horizontal | D) Neutral |