

Duration: 60 Mins

Total Marks: 25

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1. What are the various stages of heat treatment?

- | | |
|-----------------------------------|-----------------------------------|
| A) Heating, Soaking and Quenching | B) Quenching, Cooling and Heating |
| C) Heating, Cooling and Quenching | D) Soaking, Quenching and Cooling |

Answer: A) Heating, Soaking and Quenching

2. What is the centre of gravity of a sphere?

- | | |
|--------------------|-------------------------|
| A) At the radius | B) At the centre |
| C) At the diameter | D) On the circumference |

Answer: B) At the centre

3. Which is thermosetting plastic?

- | | |
|-----------------|--------------------|
| A) Celluloid | B) Melamine resins |
| C) Polystyrenes | D) Vinyl polymers |

Answer: B) Melamine resins

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

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

Answer: C) Unstable

5. Which one is included in machining estimation sheet?

- | | |
|-----------------------|----------------------|
| A) Advertisement cost | B) Transport cost |
| C) Tax | D) Raw material cost |

Answer: D) Raw material cost

6. What is the centre of gravity of a sphere?

- | | |
|------------------|-------------------------|
| A) At the radius | B) At the diameter |
| C) At the centre | D) On the circumference |

Answer: C) At the centre

7. What are the various types of heat treatment processes?

- | | |
|---|--|
| A) Tempering, Cooling, Packing and Solling | B) Annealing, Normalising, Hardening and Tempering |
| C) Normalising, Heating, Cooling and Painting | D) Hardening, Soaking, Painting and Packing |

Answer: B) Annealing, Normalising, Hardening and Tempering

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

- | | |
|----------------------------|------------------------------|
| A) Any where on its radius | B) Any where on its diameter |
|----------------------------|------------------------------|

C) At its centre

D) Any where on its circumference

Answer: C) At its centre

9. Which of the impurity in cast iron makes it hard and brittle?

- | | |
|------------|---------------|
| A) Sulphur | B) Manganese |
| C) Silicon | D) Phosphorus |

Answer: A) Sulphur

10. What is a hand book?

- | | |
|--------------------------------|--|
| A) Model book of various works | B) Type of reference work or other collection of instruction |
| C) Design book of latest works | D) Dictionary of materials |

Answer: B) Type of reference work or other collection of instruction

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

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

Answer: D) At the point of intersection of its diagonals

12. What is the ratio of change in length to original length?

- | | |
|----------------------|--------------------|
| A) Lateral strain | B) Linear strain |
| C) Volumetric strain | D) Poisson's ratio |

Answer: B) Linear strain

13. What is the main factor to be considered while preparing a detailed estimate?

- | | |
|---|---------------------------|
| A) Quantity, availability and transportation of materials | B) Brand of the materials |
| C) Location of material | D) Shape of material |

Answer: A) Quantity, availability and transportation of materials

14. Which authority publishes schedule of rates?

- | | |
|--------------------------|---------------------|
| A) Government department | B) Partnership firm |
| C) Individual | D) Corporate |

Answer: A) Government department

15. What is the use of engineering drawing?

- | | |
|-----------------------------|--------------------------|
| A) For colourful appearance | B) For reducing the cost |
|-----------------------------|--------------------------|

- C) For increasing the cost D) For estimation of material and execution of work

Answer: D) For estimation of material and execution of work

16. Which IE rules are to be verified on completion of wiring on any new installation?

- A) IE Rules, 1967 B) IE Rules, 1960
C) IE Rules, 1961 D) IE Rules, 1956

Answer: D) IE Rules, 1956

17. Which affects the centre of gravity of the object?

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

Answer: B) Mass

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

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

Answer: B) At its centre

19. What is the safe stress if the ultimate stress of a material is 35 kg/mm^2 and factor of safety is 5?

- A) 1.43 B) 0.143
C) 7 D) 0.7

Answer: C) 7

20. Which force acts on rivets?

- A) Compressive force B) Shear force
C) Bending force D) Tensile force

Answer: B) Shear force

21. What is the ratio between ultimate stress to working stress?

- A) Bulk modulus B) Factor of safety
C) Young's modulus D) Modulus of rigidity

Answer: B) Factor of safety

22. Which one of the following geometrical shape's centre of gravity lies from its base is $1/3$ of its height?

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

Answer: D) Triangle

23. What is the maximum percentage of stretch of its original length is allowable for elastic materials?

- A) 200% B) 400%
C) 100% D) 300%

Answer: D) 300%

24. Which law states that within elastic limit stress is directly proportional to strain?

- A) Newtons law B) Hooks law
C) Joules law D) Charles law

Answer: B) Hooks law

25. What is a total cost?

- A) Raw materials cost and machining cost B) Advertisement cost only
C) Raw material cost only D) Machining cost only

Answer: A) Raw materials cost and machining cost