

Duration: 60 Mins

Total Marks: 25

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Student Name: _____ Roll No: _____

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

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

A) Type of reference work or other collection of instruction

B) Dictionary of materials

C) Design book of latest works

D) Model book of various works

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

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

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

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

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

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

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

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

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

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

12. Which force acts on rivets?

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

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

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

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

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

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

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

14. Which authority publishes schedule of rates?

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

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

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

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

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

8. What is a total cost?

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

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

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

9. What is a hand book?

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

- A) Density
- C) Shape

- B) Weight
- D) Mass

18. What is the use of engineering drawing?

- A) For estimation of material and execution of work
- B) For increasing the cost
- C) For colourful appearance
- D) For reducing the cost

19. Which one is included in machining estimation sheet?

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

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

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

21. What are the various stages of heat treatment?

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

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

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

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

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

24. Which is thermosetting plastic?

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

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

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