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Score: 12/25 (48.00%)

Code: 9915

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

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

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

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

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

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

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

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

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

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

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

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

7. Which force acts on rivets?

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

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

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

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

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

10. Which is thermosetting plastic?

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

11. What is the safe stress if the ultimate stress of a material is 35 kg/mm² and factor of safety is 5?

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

12. What is a hand book?

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

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

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

14. Which authority publishes schedule of rates?

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

15. What is the use of engineering drawing?

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

16. What is a total cost?

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

17. Which one is included in machining estimation sheet?

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

18. Which IE rules are to be verified on completion of wiring

on any new installation?

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

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

- A) Silicon **B) Sulphur**
C) Manganese D) Phosphorus (Incorrect)

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

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

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

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

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

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

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

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

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

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

25. What are the various stages of heat treatment?

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