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Score: 25/25 (100.00%)

Code: 2628

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

- A) Weight
B) **Mass (Correct)**
C) Density
D) Shape

A) Vinyl polymers

B) Polystyrenes

C) Celluloid

D) Melamine resins (Correct)

2. 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

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

A) 0.143

B) 0.7

C) 1.43

D) 7 (Correct)

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

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

12. What is a hand book?

A) Model book of various works

B) Type of reference work or other collection of instruction (Correct)

C) Design book of latest works

D) Dictionary of materials

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

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

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

A) Shape of material

B) Brand of the materials

C) Quantity, availability and transportation of materials (Correct)

D) Location of material

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

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

14. Which authority publishes schedule of rates?

A) Individual

B) Corporate

C) Partnership firm

D) Government department (Correct)

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

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

15. What is the use of engineering drawing?

A) For estimation of material and execution of work (Correct)

B) For colourful appearance

C) For reducing the cost

D) For increasing the cost

7. Which force acts on rivets?

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

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

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

16. What is a total cost?

A) Raw material cost only

B) Machining cost only

C) Raw materials cost and machining cost (Correct)

D) Advertisement cost only

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

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

17. Which one is included in machining estimation sheet?

A) Transport cost

B) Advertisement cost

C) Raw material cost (Correct)

D) Tax

10. Which is thermosetting plastic?

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

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

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

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

A) Silicon **B) Sulphur (Correct)**
C) Manganese D) Phosphorus

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

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

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

A) Annealing, Normalising, Hardening and Tempering (Correct) B) Normalising, Heating, Cooling and Painting
C) Hardening, Soaking, Painting and Packing D) Tempering, Cooling, Packing and Soling

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

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

25. What are the various stages of heat treatment?

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

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