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Score: 25/25 (100.00%)

Code: 2177

1. What is the name of the point at which all the weight of the body concentrated?

- A) Initial point
B) **Centre of gravity (Correct)**
C) Centroid
D) Central point

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

- A) $4r/5$
B) **$3r/8$ (Correct)**
C) $3r/4$
D) $r/2$

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

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

4. Which one of the following geometrical shapes centre of gravity lies from its base is $1/3$ of its height?

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

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

- A) Un-stable
B) Neutral
C) **Stable (Correct)**
D) Bothe A and B

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

- A) 2.24 cm
B) **2.54 cm (Correct)**
C) 3.25 cm
D) 2.75 cm

7. What is the ratio between the change in dimension to its original dimension of the substance?

- A) Stress
B) **Strain (Correct)**
C) Poisson's ratio
D) Factor of safety

8. 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

9. What is the ratio between lateral strain and longitudinal strain?

- A) Hooks law
B) Young's modulus
C) Bulk modulus
D) **Poisson's ratio (Correct)**

10. Which symbol is used to express change in length?

- A) L
B) **delta l (Correct)**
C) I
D) e

11. 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

12. What is the other term used for reference table?

- A) Dictionary
B) Biography
C) Bibliography
D) **Information Table (Correct)**

13. What is the term used for the method of calculating various quantities and expenditure on a particular job or process?

- A) **Estimation (Correct)**
B) Drawing
C) Specification
D) Plan

14. 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

15. What is the minimum permissible size of aluminium wire used in estimation?

- A) **1.5 sq.mm (Correct)**
B) 2.5 sq.mm
C) 5 sq.mm
D) 3.5 sq.mm

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

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

17. What cables are used for 132KV lines?

- A) High tension
B) Super tension
C) Extra high tension
D) **Extra super voltage (Correct)**

18. Which specification is other than general specification?

A) Brief specification

B) Bulk specification

C) Detailed specification (Correct)

D) Main specification

19. What is the total estimation cost for making the component of 8 drilled hole dia 10 mm and 4 Numbers of M6 taps in the plate, if Rs.8/- per drilled holes and Rs.12 per drill and tap?

A) Rs.102

B) Rs.100

C) Rs.112 (Correct)

D) Rs.110

20. What is the total wattage in a room if 2 tube lights of 50W rating, 2 fans of 80W rating, 2 numbers of light points of 60W rating, one fan point of 60W rating and one 3 pin socket of 100W rating?

A) 340 W

B) 440 W

C) 540 W (Correct)

D) 640 W

21. What is the name of the structure formed, if a steel is heated for about 723 Degree C?

A) Cementite

B) Austenite (Correct)

C) Martensite

D) Ferrite

22. Which heat treatment process is done to refine the grain structure of the steel?

A) Annealing

B) Normalising (Correct)

C) Hardening

D) Tempering

23. Which is a kind of surface hardening process?

A) Cementite

B) Ferrite

C) Nitriding (Correct)

D) Tempering

24. What is colour of a metal piece when heated to 250 Degree C while doing the tempering process?

A) Blue

B) Brown (Correct)

C) Purple

D) Pale

25. What is the purpose of tempering a steel?

A) To reduce the brittleness (Correct)

B) To remove the ductility

C) To increase the hardness

D) To increase the brittleness