

GOVT.ITI,H.D. KOTE

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Attempt No.	#1	Completion Time	01:30 PM
Rank	#3	Total Questions	25

23 SCORE

25 MAX MARKS

23 CORRECT

2 INCORRECT

Answer Review

Q1 **INCORRECT** Which affects the centre of gravity of the object?

A. Weight

B. Mass ☒

C. Density

D. Shape ☐

Q2 **CORRECT** Where the centre of gravity of a circle lies?

A. At its centre ☒

B. Any where on its radius

C. Any where on its circumference

D. Any where on its diameter

Q3 **CORRECT** 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 ☒

D. At the corners

Q4 **CORRECT** What is the centre of gravity of a sphere?

A. At the centre ☒

B. On the circumference

C. At the diameter

D. At the radius

Q5 **INCORRECT** What is the maximum percentage of stretch of its original length is allowable for elastic materials?

A. 100% ☐

B. 200%

C. 300% ☒

D. 400%

Q6 **CORRECT** What is the ratio of change in length to original length?

A. Linear strain ☒

B. Lateral strain

C. Volumetric strain

D. Poisson's ratio

Q7 **CORRECT** Which force acts on rivets?

- A. Tensile force
- B. Compressive force
- C. Shear force ☒
- D. Bending force

Q8 **CORRECT** 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

Q9 **CORRECT** What is the ratio between ultimate stress to working stress?

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

Q10 **CORRECT** Which is thermosetting plastic?

- A. Vinyl polymers
- B. Polystyrenes
- C. Celluloid
- D. Melamine resins ☒

Q11 **CORRECT** 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 ☒

Q12 **CORRECT** 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

Q13 **CORRECT** 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 ☒

D. Location of material

Q14 **CORRECT** Which authority publishes schedule of rates?

A. Individual

B. Corporate

C. Partnership firm

D. Government department ☒

Q15 **CORRECT** What is the use of engineering drawing?

A. For estimation of material and execution of work ☒

B. For colourful appearance

C. For reducing the cost

D. For increasing the cost

Q16 **CORRECT** What is a total cost?

A. Raw material cost only

B. Machining cost only

C. Raw materials cost and machining cost ☒

D. Advertisement cost only

Q17 **CORRECT** Which one is included in machining estimation sheet?

A. Transport cost

B. Advertisement cost

C. Raw material cost ☒

D. Tax

Q18 **CORRECT** 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

D. IE Rules, 1967

Q19 **CORRECT** Which of the impurity in cast iron makes it hard and brittle?

A. Silicon

B. Sulphur ☒

C. Manganese

D. Phosphorus

Q20 **CORRECT** Where the centre of gravity of a circle lies?

A. At its centre ☒

B. Any where on its radius

C. Any where on its circumference

D. Any where on its diameter

Q21 **CORRECT** What is the centre of gravity of a sphere?

A. At the centre ☒

B. On the circumference

C. At the diameter

D. At the radius

Q22 **CORRECT** Which state of equilibrium's example is A cone resting on its tip?

A. Stable

B. Neutral

C. Unstable ☒

D. Horizontal

Q23 **CORRECT** Which one of the following geometrical shape's centre of gravity lies from its base is 1/3 of its height?

A. Square

B. Rhombus

C. Triangle ☒

D. Cone

Q24 **CORRECT** 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

D. Tempering, Cooling, Packing and Solling

Q25 **CORRECT** 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