

GOVT.ITI,H.D. KOTE

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36.00% 9 / 25

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Attempt No.	#1	Completion Time	09:47 PM
Rank	#3	Total Questions	25

9 SCORE

25 MAX MARKS

9 CORRECT

16 INCORRECT

Answer Review

Q1 **CORRECT** What is the name of the point at which all the weight of the body concentrated?

A. Initial point

B. Centre of gravity ☒

C. Centroid

D. Central point

Q2 **INCORRECT** What is the centre of gravity of a solid hemisphere from its base?

A. $4r/5$

B. $3r/8$ ☒

C. $3r/4$

D. $r/2$ ☐

Q3 **INCORRECT** Which state of equilibrium's example is A cone resting on its tip?

A. Stable

B. Neutral

C. Unstable ☒

D. Horizontal ☐

Q4 **INCORRECT** Which one of the following geometrical shapes centre of gravity lies from its base is $\frac{1}{3}$ of its height?

A. Square ☐

B. Rhombus

C. Triangle ☒

D. Cone

Q5 **INCORRECT** Which state of equilibrium's example is, A cone resting on its base?

A. Un-stable

B. Neutral

C. Stable ☒

D. Bothe A and B ☐

Q6 **INCORRECT** What is the centre of gravity of a semi circle of diameter 12 cm?

A. 2.24 cm

B. 2.54 cm ☒

C. 3.25 cm ☐

D. 2.75 cm

Q7 **INCORRECT** What is the ratio between the change in dimension to its original dimension of the substance?

A. Stress

B. Strain ☒

C. Poisson's ratio

D. Factor of safety ☐

Q8 **INCORRECT** What is the ratio of change in length to original length?

A. Linear strain ☒

B. Lateral strain

C. Volumetric strain

D. Poisson's ratio ☐

Q9 **CORRECT** What is the ratio between lateral strain and longitudinal strain?

A. Hooks law

B. Young's modulus

C. Bulk modulus

D. Poisson's ratio ☒

Q10 **CORRECT** Which symbol is used to express change in length?

A. L

B. Δl ☒

C. l

D. e

Q11 **INCORRECT** 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 ☐

Q12 **CORRECT** What is the other term used for reference table?

- A. Dictionary
- B. Biography
- C. Bibliography
- D. Information Table ☒

Q13 **INCORRECT** What is the term used for the method of calculating various quantities and expenditure on a particular job or process?

- A. Estimation ☒
- B. Drawing
- C. Specification ☐
- D. Plan

Q14 **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

Q15 **CORRECT** What is the minimum permissible size of aluminium wire used in estimation?

A. 1.5 sq.mm ☒

B. 2.5 sq.mm ☐

C. 5 sq.mm ☐

D. 3.5 sq.mm ☐

Q16 **INCORRECT** Which of the impurity in cast iron makes it hard and brittle?

A. Silicon ☐

B. Sulphur ☒

C. Manganese ☐

D. Phosphorus ☐

Q17 **INCORRECT** What cables are used for 132KV lines?

A. High tension ☐

B. Super tension ☐

C. Extra high tension ☐

D. Extra super voltage ☒

Q18 **CORRECT** Which specification is other than general specification?

A. Brief specification ☐

B. Bulk specification ☐

C. Detailed specification ☒

D. Main specification ☐

Q19 **INCORRECT** 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 ☒

D. Rs.110 ☐

Q20 **INCORRECT** 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 ☒

D. 640 W ☐

Q21 **INCORRECT** What is the name of the structure formed, if a steel is heated for about 723 Degree C?

A. Cementide ☐

B. Austenite ☒

C. Martensite ☐

D. Ferrite ☐

Q22 **INCORRECT** Which heat treatment process is done to refine the grain structure of the steel?

A. Annealing ☐

B. Normalising ☒

C. Hardening ☐

D. Tempering ☐

Q23 **INCORRECT** Which is a kind of surface hardening process?

A. Cementite

B. Ferrite

C. Nitriding ☒

D. Tempering ☐

Q24 **CORRECT** What is colour of a metal piece when heated to 250 Degree C while doing the tempering process?

A. Blue

B. Brown ☒

C. Purple

D. Pale

Q25 **CORRECT** What is the purpose of tempering a steel?

A. To reduce the brittleness ☒

B. To remove the ductility

C. To increase the hardness

D. To increase the brittleness