

GOVT.ITI,H.D. KOTE

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Student Name	AKASH	Access Code	0859
Attempt No.	#1	Completion Time	10:42 AM
Rank	#5	Total Questions	25

5 SCORE

25 MAX MARKS

5 CORRECT

20 INCORRECT

Answer Review

Q1 **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

Q2 **CORRECT** 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

Q3 **INCORRECT** Which is elastic material?

A. Nylon ☐

B. Polystyrenes ☐

C. Celluloid

D. Polycarbonates

Q4 **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

Q5 **INCORRECT** What is the ratio between lateral strain and longitudinal strain?

A. Hooks law ☐

B. Young's modulus

C. Bulk modulus

D. Poisson's ratio ☐

Q6 **INCORRECT** What is the formula for bulk modulus?

A. Tensile stress/Tensile strain

B. Compressive stress/Compressive strain ☐

C. Volumetric stress/Volumetric strain ☐

D. Shear stress/Shear strain

Q7 **INCORRECT** Which force acts on crank shaft?

- A. Shear stress ☐
- B. Torsional stress ☒
- C. Tensile stress ☐
- D. Compressive stress ☐

Q8 **INCORRECT** What force will be required to punch a hole of 10 mm dia in a 1 mm thick plate, if the allowable shear stress is 50 N/mm^2 ? ($\pi = 22/7$)

- A. 1757 N ☐
- B. 1575 N ☐
- C. 1571.4 N ☒
- D. 1577 N ☐

Q9 **INCORRECT** What is the young's modulus if a wire of 2m long, 0.8 mm^2 in cross section increases its length by 1.6 mm on suspension of 8 kg weight from it?

- A. 1.25 kg/mm^2 ☐
- B. 12.5 kg/mm^2 ☒
- C. 125 kg/mm^2 ☐
- D. 12500 kg/mm^2 ☐

Q10 **INCORRECT** Which hand book referred by machine engineer?

- A. Parry's cheorikal ☐
- B. CRC ☐
- C. Mark standard ☒
- D. Oxford Dictionary ☐

Q11 **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

Q12 **INCORRECT** Which authority publishes schedule of rates?

A. Individual

B. Corporate ☐

C. Partnership firm

D. Government department ☐

Q13 **INCORRECT** 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

Q14 **INCORRECT** Which one is included in machining estimation sheet?

A. Transport cost

B. Advertisement cost ☐

C. Raw material cost ☐

D. Tax

Q15 **INCORRECT** 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 **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

Q17 **INCORRECT** What is the relative permittivity of rubber?

A. Between 2 and 3 ☐

B. Between 5 and 6 ☐

C. Between 8 and 10

D. Between 12 and 14

Q18 **INCORRECT** What is the weight of a rectangular block of a cast iron of 250cm X 20cm X 8cm (density of cast iron is 7.8 gm/cm³)?

A. 312 kg ☐

B. 372 kg

C. 410 kg

D. 525 kg ☐

Q19 **CORRECT** What is the estimation of milling cost of a rectangular block size 100 X 80 X60 mm, if cost of the milling is Rs.2/sq.cm?

A. Rs.652/-

B. Rs.752/- ☒

C. Rs.572/-

D. Rs.960/-

Q20 **INCORRECT** What is the total construction cost of a house construction area of 3000 sq.ft. (cost of construction Rs.2000/- per sq.ft including material and labour)?

A. Rs.30,000,000 ☐

B. Rs.60,00,000 ☒

C. Rs.6,00,000

D. Rs.6,000,000

Q21 **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

Q22 **INCORRECT** What is the process of heat treatment?

A. The process of heating and cooling to change the structure and properties ☒

B. The process of heating to change the dimensions

C. The process of cooling to measure the dimensions ☐

D. The process of heating and bending as per our requirement

Q23 **CORRECT** What is the name of the structure formed, if a steel is heated for about 723 Degree C?

A. Cementite

B. Austenite ☒

C. Martensite

D. Ferrite

Q24 **INCORRECT** Which is the suitable nitriding process for all alloyed and unalloyed steels?

A. Silver nitriding

B. Nitriding in salt-bath ☒

C. Nitriding in Quenching tank ☐

D. Gas nitriding

Q25 **INCORRECT** 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