

Govt ITI HOLENARASIPURA

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Attempt No.	#1	Completion Time	12:03 PM
Rank	#44	Total Questions	50

33 SCORE

50 MAX MARKS

33 CORRECT

17 INCORRECT

Answer Review

Q1 **INCORRECT** 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 **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 sphere?

A. At the centre ☒

B. On the circumference

C. At the diameter

D. At the radius

Q4 **CORRECT** Which state of equilibrium's example is A cone resting on its tip?

A. Stable

B. Neutral

C. Unstable ☒

D. Horizontal

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

A. 100%

B. 200%

C. 300% ☒

D. 400%

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 **CORRECT** What is the unit of strain?

A. Kg/cm^2

B. Newton/metre^2

C. Metre

D. No unit ☒

Q9 **CORRECT** Which symbol is used to express change in length?

A. L

B. Δl ☒

C. l

D. e

Q10 **CORRECT** What is the term used for maximum stress attained by a material before rupture?

A. Tensile stress

B. Compressive stress

C. Working stress

D. Ultimate stress ☒

Q11 **INCORRECT** What is the ratio of shear stress to shear strain?

A. Modulus of elasticity

B. Modulus of rigidity ☒

C. Bulk modulus

D. Yield point ☐

Q12 **INCORRECT** What is the ratio between stress and strain?

A. Yield point ☐

B. Factor of safety

C. Young's Modulus ☒

D. Poisson's ratio

Q13 **INCORRECT** Which is thermosetting plastic?

A. Vinyl polymers

B. Polystyrenes

C. Celluloid ☐

D. Melamine resins ☒

Q14 **CORRECT** 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

Q15 **CORRECT** What is the tensile strain if a force of 3.2 kN is applied to a bar of original length 2800 mm extends the bar by 0.5 mm?

A. 0.0001786 ☐

B. 0.0001687 ☐

C. 0.0001867 ☐

D. 0.0001968 ☐

Q16 **CORRECT** What is the young's modulus if a wire of 2m long, 0.8 mm² in cross section increases its length by 1.6 mm on suspension of 8 kg weight from it?

A. 1.25 kg/mm² ☐

B. 12.5 kg /mm² ☐

C. 125 kg/mm² ☐

D. 12500 kg/mm² ☐

Q17 **CORRECT** What is the safe stress if the ultimate stress of a material is 35 kg/mm² and factor of safety is 5?

A. 0.143 ☐

B. 0.7 ☐

C. 1.43 ☐

D. 7 ☐

Q18 **INCORRECT** What is the other term used for reference table?

A. Dictionary ☐

B. Biography ☐

C. Bibliography ☐

D. Information Table ☐

Q19 **INCORRECT** Which hand book referred by machine engineer?

A. Parry's cheorikal ☐

B. CRC

C. Mark standard ☐

D. Oxford Dictionary

Q20 **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

Q21 **INCORRECT** Which standard schedule of rates to be considered for estimation?

A. Standard schedule of rates of the last year ☐

B. Standard schedule of rates of the average of the last 10 years

C. Standard schedule of rates of the average of last 5 years

D. Standard schedule of rates of the current year ☐

Q22 **CORRECT** What is an over estimate?

A. When an estimate is exceeded to actual estimate ☐

B. When an estimate is fell short of the actual estimate

C. When an estimate perfectly matches the actual estimate

D. No work started as per estimate

Q23 **CORRECT** What is the name of a booklet, the rates of various terms are indicated?

- A. Price bank
- B. Price bunch
- C. Price tag
- D. Price catalogue ☒

Q24 **INCORRECT** What is the term, for the details of materials, brand name, grade of quality, rating of current and voltage etc.?

- A. Drawing
- B. Specification of materials ☒
- C. Raw materials ☐
- D. Price catalogue

Q25 **CORRECT** What is the other term of pocket reference in engineering works?

- A. Hand tool
- B. Hand book ☒
- C. Good book
- D. New book

Q26 **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

Q27 **INCORRECT** What is the minimum permissible area of conductor (U/G cable) for three and half cores cable?

A. 25 sq.mm

B. 50 sq.mm ☒

C. 5 sq.mm ☐

D. 100 sq.mm

Q28 **CORRECT** Which of the impurity in cast iron makes it hard and brittle?

A. Silicon

B. Sulphur ☒

C. Manganese

D. Phosphorus

Q29 **CORRECT** Which specification is other than general specification?

A. Brief specification

B. Bulk specification

C. Detailed specification ☒

D. Main specification

Q30 **CORRECT** What percentage of water absorbed by a good building stone?

A. Less than 10%

B. Less than 20%

C. Less than 8%

D. Less than 5% ☒

Q31 **CORRECT** 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

Q32 **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

Q33 **CORRECT** What is the total cost of painting of a class room including ceiling, if the size of length is 6m, breadth is 5m and height is 4m. (Painting + labour cost Rs.150/- per sq.m)

A. Rs.15000/-

B. Rs.16700/-

C. Rs.17700/- ☒

D. Rs.18700/-

Q34 **CORRECT** 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

Q35 **CORRECT** What is the total cost of Air-conditioners installed in a college, 40 class room-each 1 Air-conditioner, Computer lab 5 Air-conditioners and conference hall 5 Air-conditioners (Cost of one air conditioner Rs.30000/- including installation)?

A. Rs.10 lakhs

B. Rs. 20 lakhs

C. Rs. 12 lakhs

D. Rs. 15 lakhs ☒

Q36 **CORRECT** Which affects the centre of gravity of the object

A. Weight

B. Mass ☒

C. Density

D. Shape

Q37 **INCORRECT** 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

Q38 **CORRECT** What is the centre of gravity of a right circular cone from its base?

A. $h/2$

B. $h/3$

C. $h/4$ ☒

D. $h/5$

Q39 **CORRECT** What is the centre of gravity of a solid hemisphere from its base?

A. $4r/5$

B. $3r/8$ ☒

C. $3r/4$

D. $r/2$

Q40 **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

Q41 **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

Q42 **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

Q43 **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

Q44 **INCORRECT** 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 ☐

Q45 **CORRECT** Which heat treatment process is done to refine the grain structure of the steel?

A. Annealing

B. Normalising ☐

C. Hardening

D. Tempering

Q46 **CORRECT** What is the name of heat treatment process done to relieve strain and stress?

A. Normalising

B. Annealing ☐

C. Hardening

D. Tempering

Q47 **CORRECT** Which process steel is heated in a carbonaceous atmosphere for the penetration of carbon?

A. Case hardening

B. Nitriding

C. Carburising ☒

D. Induction hardening

Q48 **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

Q49 **INCORRECT** How much time is allowed normally in soaking zone for a 10mm thick metal piece while hardening?

A. 5 minutes ☒

B. 10 minutes

C. 15 minutes ☐

D. 20 minutes

Q50 **INCORRECT** 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