

Duration: 60 Mins

Total Marks: 25

ID: ITISKILL3267MO

Student Name: _____ Roll No: _____

1. Which is elastic material?

- A) Celluloid
B) Nylon
C) Polycarbonates
D) Polystyrenes

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

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

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

- A) Ferrite
B) Martensite
C) Cementite
D) Austenite

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

- A) 2.54 cm
B) 3.25 cm
C) 2.24 cm
D) 2.75 cm

5. What is the estimation of milling cost of a rectangular block size 100 X 80 X 60 mm, if cost of the milling is Rs.2/sq.cm?

- A) Rs.752/-
B) Rs.960/-
C) Rs.572/-
D) Rs.652/-

6. What is the formula for bulk modulus?

- A) Shear stress/Shear strain
B) Tensile stress/Tensile strain
C) Volumetric stress/Volumetric strain
D) Compressive stress/Compressive strain

7. Which IE rules are to be verified on completion of wiring on any new installation?

- A) IE Rules, 1956
B) IE Rules, 1967
C) IE Rules, 1960
D) IE Rules, 1961

8. What is the relative permittivity of rubber?

- A) Between 2 and 3
B) Between 12 and 14
C) Between 5 and 6
D) Between 8 and 10

9. What is the ratio of change in length to original length?

- A) Linear strain
B) Volumetric strain
C) Poisson's ratio
D) Lateral strain

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

- A) Brown
B) Purple
C) Pale
D) Blue

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

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

12. Which authority publishes schedule of rates?

- A) Government department
B) Partnership firm
C) Individual
D) Corporate

13. What is the youngs 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) 125 kg/mm²
B) 12500 kg/mm²
C) 1.25 kg/mm²
D) 12.5 kg/mm²

14. 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 50N/mm²? (Pi = 22/7)

- A) 1575 N
B) 1571.4 N
C) 1757 N
D) 1577 N

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

- A) Both A and B
B) Neutral
C) Un-stable
D) Stable

16. 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) 525 kg
C) 410 kg
D) 372 kg

17. Which hand book referred by machine engineer?

- A) CRC
- B) Parry's cheorikal
- C) Oxford Dictionary
- D) Mark standard

18. What is the process of heat treatment?

- A) The process of heating and bending as per our requirement
- B) The process of heating to change the dimensions
- C) The process of cooling to measure the dimensions
- D) The process of heating and cooling to change the structure and properties

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

- A) Specification
- B) Drawing
- C) Plan
- D) Estimation

20. Which one is included in machining estimation sheet?

- A) Tax
- B) Advertisement cost
- C) Raw material cost
- D) Transport cost

21. Which force acts on crank shaft?

- A) Torsional stress
- B) Shear stress

C) Compressive stress

D) Tensile stress

22. 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.6,00,000
- B) Rs.60,00,000
- C) Rs.6,000,000
- D) Rs.30,000,000

23. What is a total cost?

- A) Machining cost only
- B) Raw material cost only
- C) Raw materials cost and machining cost
- D) Advertisement cost only

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

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

25. Which is the suitable nitriding process for all alloyed and unalloyed steels?

- A) Silver nitriding
- B) Gas nitriding
- C) Nitriding in Quenching tank
- D) Nitriding in salt-bath