

GOVT ITI HOLENARASIPURA

MOCK TEST -07

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90.00% 45 / 50

Student Name	Rajegowda	Access Code	0146
Attempt No.	#1	Completion Time	11:37 AM
Rank	#12	Total Questions	50

45 SCORE

50 MAX MARKS

45 CORRECT

5 INCORRECT

Answer Review

Q1 CORRECT Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm ☒

D. Watt

Q2 CORRECT What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

A. 11 ohms

B. 7 ohm

C. 17 ohms ☒

D. 1/17 ohms

Q3 **CORRECT** Which is same in series connection of resistors in a circuit?

A. Current ☐

B. Voltage

C. Resistance

D. Power

Q4 **INCORRECT** What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

A. 12 W ☐

B. 10 W

C. 3 W

D. 1.2 W ☐

Q5 **CORRECT** What is the voltage of the immersion heater?

$P = 500$ watts

$I = 2.27$ Amps

$V = \text{_____}$ Volts

A. 200.3 volts

B. 210.3 volts

C. 220.3 volts ☐

D. 230.3 volts

Q6 **CORRECT** Which law states about electromagnetic induction?

A. Ohm's law

B. Hooke's law

C. Lenz's law

D. Faraday's law ☐

Q7 **CORRECT** Which is the example for statically induced emf?

A. Generator

B. Motor

C. Transformer ☒

D. Refrigerator

Q8 **CORRECT** What is the current Flow in the bulb?

$P = 550 \text{ watts}$

$R = 22 \text{ Ohms}$

$I = \text{ ______ } \text{Amps}$

A. 2 Amps

B. 3 Amps

C. 4 Amps

D. 5 Amps ☒

Q9 **CORRECT** What is termed as the quantity of matter contained in a body?

A. Density

B. Volume

C. Mass ☒

D. Specific gravity

Q10 **INCORRECT** What is the force with which a body is attracted by the earth towards its centre?

A. Mass ☐

B. Weight ☒

C. Volume

D. Density

Q11 **CORRECT** What is called the ratio between the density of a substance's density of water at 4 Degree Centigrade?

A. Density

B. Specific gravity ☒

C. Mass

D. Weight

Q12 **CORRECT** What is the volume (V) of mercury in cm^3 , if mass (m) of mercury is 1 kg and density (r) is 13.6 g/cm^3 ?

A. 73.53 cm^3 ☒

B. 73.43 cm^3

C. 73.33 cm^3

D. 73.23 cm^3

Q13 **CORRECT** What is the mass in gram, if a force of 15 dynes acting on a mass m producing an acceleration of 2.5 cm/sec^2 ?

A. 9 grams

B. 8 grams

C. 7 grams

D. 6 grams ☒

Q14 **CORRECT** What is the volume of mercury in cm^3 , if the mass (m) of mercury is 136 grams (g) and density (r) of mercury is 13.6 g/cm^3 ?

A. 136 cm^3

B. 13.6 cm^3

C. 10.6 cm^3

D. 10.0 cm^3 ☒

Q15 **CORRECT** What is the specific gravity of the metal, if it weighs 6.5 kgf in air and 3.5 kgf in water?

A. 6.166

B. 3.166

C. 2.166 ☒

D. 1.166

Q16 **CORRECT** Which metal contains iron as a major content?

A. Brass metal

B. Bronze metal

C. Zinc

D. Ferrous metal ☒

Q17 **CORRECT** Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

A. Ductility

B. Malleability

C. Hardness ☒

D. Toughness

Q18 **CORRECT** Which property of metal has its power of returning to its original shape after the applied force is released?

A. Malleability

B. Tenacity

C. Elasticity ☒

D. Plasticity

Q19 **CORRECT** Which cast iron cannot be welded?

- A. Grey cast iron
- B. White cast iron ☒
- C. Malleable cast iron
- D. Nodular cast iron

Q20 **CORRECT** Which metal cannot be forged?

- A. Alloy steel
- B. Mild steel
- C. Steel
- D. Cast iron ☒

Q21 **CORRECT** Which metal is widely used for making casting of machinery parts?

- A. Grey cast iron ☒
- B. White cast iron
- C. Malleable cast iron
- D. Wrought iron

Q22 **CORRECT** Which furnace is used to get pig iron from iron ore?

- A. Mild steel - Rever battery
- B. Electric furnace
- C. Blast furnace ☒
- D. Cupola

Q23 **INCORRECT** What is the name of furnace to obtained cast iron?

A. Cupola ☐

B. Mild steel - Blast furnace ☐

C. Steel - Rever battery

D. Alloy metal - Electric furnace

Q24 **CORRECT** What is the other name of low carbon steel?

A. Low alloy steel

B. High alloy steel

C. High speed steel

D. Mild steel ☐

Q25 **CORRECT** What is the carbon percentage in high carbon steel?

A. 0.02% to 0.03%

B. 0.15% to 0.25%

C. 0.25% to 0.50%

D. 0.50% to 1.50% ☐

Q26 **CORRECT** What is the ore of aluminium?

A. Hematite

B. Mallatite

C. Bauxite ☐

D. Lemonite

Q27 **CORRECT** Which property of a metal enables it by which it can be drawn out into wires under tension without rupture?

A. Ductility ☒

B. Malleability

C. Hardness

D. Brittleness

Q28 **CORRECT** What is the area of a rectangle, whose length and breadth are 10cm and 8cm respectively?

A. 75 cm^2

B. 80 cm^2 ☒

C. 85 cm^2

D. 90 cm^2

Q29 **CORRECT** What is the perimeter of scalene. Triangle having sides of 40mm, 20mm and 28mm?

A. 68 mm

B. 78 mm

C. 88 mm ☒

D. 98 mm

Q30 **CORRECT** What is the cross sectional area of a circular ring of $D = 38 \text{ mm}$ $d = 32 \text{ mm}$?

A. 320 mm^2

B. 330 mm^2 ☒

C. 340 mm^2

D. 350 mm^2

Q31 **INCORRECT** What is the area of an ellipse if the major and minor axes are 5 cm and 3 cm respectively?

A. 27 cm^2

B. 37 cm^2 ☐

C. 47 cm^2 ☐

D. 57 cm^2

Q32 **CORRECT** What is the capacity of a conical tank of radius 2 m and height 5m?

A. 11 m^3

B. 21 m^3 ☐

C. 31 m^3

D. 41 m^3

Q33 **CORRECT** What is the formula for velocity?

A. Distance covered/Time

B. Displacement/Time ☐

C. Change in velocity/Time

D. Change of momentum/Time

Q34 **CORRECT** What is called if a body posses only magnitude or size alone?

A. Speed

B. Velocity

C. Vector quantity

D. Scalar quantity ☐

Q35 **CORRECT** What is called if a body posses both magnitude and direction of velocity?

A. Speed

B. Velocity

C. Vector quantity ☒

D. Scalar quantity

Q36 **CORRECT** What is the rate of change of displacement of a body?

A. Body at rest

B. Body at motion

C. Speed

D. Velocity ☒

Q37 **CORRECT** What is called if a body changes its position with respect to its surroundings?

A. Body at rest

B. Body at motion ☒

C. Speed

D. Velocity

Q38 **CORRECT** What is velocity of a body travels a distance of 168 metres in a line in 21 seconds?

A. 6 m/sec

B. 8 m/sec ☒

C. 10 m/sec

D. 12 m/sec

Q39 **INCORRECT** What is the formula for acceleration?

A. Metre/second ☐

B. Metre/second² ☐

C. Metre/minute

D. Metre/hour

Q40 **CORRECT** How many newtons for 1 kilogram?

A. 981 Newtons

B. 98.1 Newtons

C. 9.81 Newtons ☐

D. 0.981 Newtons

Q41 **CORRECT** How many watts for 1 horse power in British system?

A. 726 watts

B. 736 watts

C. 746 watts ☐

D. 756 watts

Q42 **CORRECT** How much work done in one hour, if a pump can raise 100 liters of water through a height of 200 meters in one minutes?

A. 12 x 104 kg meter

B. 12 x 105 kg meter ☐

C. 12 x 106 kg meter

D. 12 x 107 kg meter

Q43 **CORRECT** What is the potential energy, if a body of mass 250 kg is at a height of 30 metre?

A. 72.57 KJ

B. 73.57 KJ ☒

C. 74.57 KJ

D. 75.57 KJ

Q44 **CORRECT** What is the work done in joules if a load of 15.5 kg is lifted through a height of 4.4 metres?

A. 639 Joules

B. 649 Joules

C. 659 Joules

D. 669 Joules ☒

Q45 **CORRECT** What is the kinetic energy of a bullet of mass 5gm travels with a speed of 500 m/sec?

A. 620 Joules

B. 625 Joules ☒

C. 630 Joules

D. 635 Joules

Q46 **CORRECT** What is the square root of 0.017?

A. 0.001

B. 0.13 ☒

C. 0.00001

D. 0.000001

Q47 **CORRECT** How much is 8% of 40 kg?

A. 2.2 kg

B. 3.2 kg ☒

C. 4.2 kg

D. 5.2 kg

Q48 **CORRECT** What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

A. Cu 92%

B. Cu 94% ☒

C. Cu 96%

D. Cu 98%

Q49 **CORRECT** What is the LCM of 12, 18, 6, 36?

A. 12

B. 18

C. 36 ☒

D. 42

Q50 **CORRECT** What is the square root of 529?

A. 12

B. 23 ☒

C. 33

D. 43