

GOVT ITI HOLENARASIPURA

MOCK TEST -18

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92.50% 37 / 40

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Attempt No.	#1	Completion Time	04:08 PM
Rank	#19	Total Questions	40

37 SCORE

40 MAX MARKS

37 CORRECT

3 INCORRECT

Answer Review

Q1 CORRECT Which is the unit of current?

A. Ampere ☐

B. Volt

C. Ohm

D. Watt

Q2 CORRECT Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm ☒

D. Watt

Q3 **CORRECT** What is the flow of electrons in any conductor?

A. Voltage

B. Current ☒

C. Resistance

D. Power

Q4 **CORRECT** Which property of a substance is opposing the flow of electric current?

A. Current

B. Voltage

C. Resistance ☒

D. EMF

Q5 **CORRECT** Which is same in series connection of resistors in a circuit?

A. Current ☒

B. Voltage

C. Resistance

D. Power

Q6 **CORRECT** What is the current?

R = 50 Ohms

220 Volts

I = ____Amps

A. 4.1 Amps

B. 4.2 Amps

C. 4.3 Amps

D. 4.4 Amps ☒

Q7 **CORRECT** How much watt second in 1 watt hour?

- A. 1000 watt sec
- B. 2000 watt sec
- C. 3600 watt sec ☒
- D. 4000 watt sec

Q8 **CORRECT** How much power does it consumes if an electric heater draws a current of 10 amps at 200 volts?

- A. 2000 watts ☒
- B. 2010 watts
- C. 2020 watts
- D. 2030 watts

Q9 **INCORRECT** What is the resistance of an electric iron if the rating of electric iron is 220 V and 500 watts?

- A. 94.8 ohms ☐
- B. 95.8 ohms
- C. 96.8 ohms ☒
- D. 97.8 ohms

Q10 **CORRECT** What is the unit of intensity of magnetic field?

- A. wb/m ☒
- B. m/wb
- C. Hertz
- D. Coloumb

Q11 **CORRECT** What does EMF stands for?

A. Electronic Magnetic Force

B. Electro Motive Force ☒

C. Electro Magnetic Force

D. Electromated Force

Q12 **CORRECT** Which one of the following properties is the mechanical properties of metal?

A. Fusibility

B. Ductility ☒

C. Corrosion

D. Structure

Q13 **CORRECT** Which is brittle metal?

A. Cast iron ☒

B. Steel

C. Mild steel

D. Alloy steel

Q14 **CORRECT** Which property of material enables to formation of permanent deformation without fracture?

A. Elasticity

B. Plasticity ☒

C. Ductility

D. Brittleness

Q15 **CORRECT** Which metal cannot be forged?

A. Alloy steel

B. Mild steel

C. Steel

D. Cast iron ☒

Q16 **CORRECT** 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

Q17 **CORRECT** What is the carbon percentage in medium carbon steel?

A. 0.05% to 0.15%

B. 0.15% to 0.25%

C. 0.25% to 0.5% ☒

D. 0.5% to 1.5%

Q18 **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% ☒

Q19 **CORRECT** Which among the following is an insulator?

A. Copper

B. Aluminium

C. Silver

D. Mica ☒

Q20 **CORRECT** What is the area of a right angled triangle having a base 10 cm and height 5 cm?

A. 20 sq.cm

B. 25 sq.cm ☒

C. 30 sq.cm

D. 35 sq.cm

Q21 **CORRECT** What is the area of a circle of diameter 50 cm?

A. 1932.5 cm^2

B. 1942.5 cm^2

C. 1952.5 cm^2

D. 1962.5 cm^2 ☒

Q22 **CORRECT** What is the area of a sector of a circle of radius 5 cm and its angle is 96 Degree?

A. 20.39 cm^2

B. 20.93 cm^2 ☒

C. 20.89 cm^2

D. 20.98 cm^2

Q23 **CORRECT** 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

Q24 **CORRECT** What is called if a body does not change its position with respect to its surroundings?

A. Body at motion

B. Body at rest ☒

C. Speed

D. Velocity

Q25 **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

Q26 **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

Q27 **CORRECT** What is the speed of a train of 80 metre long train passes a railway station platform of 120 metres length in 20 seconds?

A. 30 km/hour

B. 32 km/hour

C. 34 km/hour

D. 36 km/hour ☒

Q28 **CORRECT** What is the retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

A. 0.40 m/sec^2

B. 0.30 m/sec^2 ☒

C. 0.20 m/sec^2

D. 0.10 m/sec^2

Q29 **CORRECT** What maximum height a stone will reach if it is thrown upwards with a velocity of 20 m/sec ($g = 10 \text{ m/sec}^2$)

A. 10 m

B. 20 m ☒

C. 30 m

D. 40 m

Q30 **INCORRECT** What is the work done in unit time?

A. Energy ☐

B. Power ☒

C. Force

D. Acceleration

Q31 **CORRECT** What is the potential energy in a body of mass 10 kg kept on the top of a pole 20 metres height?

A. 1942 Joules

B. 1952 Joules

C. 1962 Joules ☒

D. 1972 Joules

Q32 **CORRECT** Convert 0.456 decimal fraction into percentage?

A. 0.456

B. 0.0456

C. 45.6 ☒

D. 0.000456

Q33 **CORRECT** What is the x value for $x^2 + 62 = 126$?

A. 4

B. 6

C. 8 ☒

D. 10

Q34 **CORRECT** What is the length L2, if total length (L) is 2.75 metre and $L1:L2 = 2:3$?

A. 1.1 metre

B. 1.25 metre

C. 1.65 metre ☒

D. 1.75 metre

Q35 **CORRECT** How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

A. 20 days

B. 22 days

C. 24 days ☒

D. 26 days

Q36 **CORRECT** Simplify: $(\frac{3}{4}) + (\frac{2}{5}) - (\frac{5}{20})$

A. $(\frac{3}{10})$

B. $(\frac{9}{10})$ ☒

C. $(\frac{12}{10})$

D. $(\frac{13}{10})$

Q37 **CORRECT** What is the length of each part is a copper wire of 225 metre long is cut into 900 equal parts?

A. 0.23 metre

B. 0.25 metre ☒

C. 0.28 metre

D. 0.29 metre

Q38 **CORRECT** What is the boiling point of water? | ನೀರಿನ ಕುದಿಯುವ ಬಿಂದು ಯಾವುದು?

A. 0°C

B. 32°C

C. 100°C ☒

D. 212°C

Q39 **CORRECT** What is the ratio of power output to power input? | ವಿದ್ಯುತ್ ಉತ್ಪಾದನೆಯ ವಿದ್ಯುತ್ ಇನ್ಪುಟ್ ಅನುಪಾತ ಎಷ್ಟು?

A. Work

B. Energy

C. Efficiency ☒

D. Acceleration

Q40 **INCORRECT** What is the value of $\tan 45^\circ$ if $\sin 45^\circ = 1/\square$? | Sin $45^\circ = 1/\square$ ಆದರೆ $\tan 45^\circ$ ಮೌಲ್ಯ ಎಷ್ಟು?

(A) $\frac{1}{\sqrt{2}}$

(B) $\frac{\sqrt{3}}{2}$

(C) **1**

(D) $\frac{1}{\sqrt{3}}$

A. A ☐

B. B

C. C ☒

D. D