

# GOVT ITI HOLENARASIPURA

## MOCK TEST -10

Q. ID: ITISKILL9070P2 | June 2026

92.00% 46 / 50

Student Name	□ □ □ □ □ . □ . □	Access Code	8438
Attempt No.	#2	Completion Time	11:43 AM
Rank	#30	Total Questions	50

46 SCORE

50 MAX MARKS

46 CORRECT

4 INCORRECT

### Answer Review

Q1 **CORRECT** Which machine converts mechanical energy into electrical energy?

A. Battery

B. Generator

C. Heater

D. Iron box

Q2 **CORRECT** Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm

D. Watt

Q3 CORRECT Which is mineral insulator

A. Glass

B. Quartz

C. Mica

D. Porcelain

Q4 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

Q5 CORRECT What is the resistance?

<br>

I = 11.5 Amps

<br>

V = 380 Volts

<br>

R = \_\_\_\_\_ Ohms

A. 13 ohms

B. 23 ohms

C. 33 ohms

D. 43 ohms

Q6 CORRECT What is the power if an emf of one volt causes a current flow of 1 ampere?

A. 1 watt

B. 1 kilowatt

C. 1 HP

D. 1 Kilowatt hour

Q7 **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

Q8 **CORRECT** 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

Q9 **INCORRECT** What is the unit of intensity of magnetic field?

A. wb/m

B. m/wb

C. Hertz

D. Coloumb

Q10 **CORRECT** What is the power required?

<br>

I = 0.455 Amps

<br>

R = 484 Ohms

<br>

P = \_\_\_ Watts

A. 98.2 watts

B. 99.2 watts

C. 100.2 watts

D. 101.2 watts

Q11 **CORRECT** What is the rated power if an adjustable resistor bears the following label 1.5 k ohms/ 0.08A?

A. 9.2 watts

B. 9.4 watts

C. 9.6 watts

D. 9.8 watts

Q12 **CORRECT** What is termed as the quantity of matter contained in a body?

A. Density

B. Volume

C. Mass

D. Specific gravity

Q13 **CORRECT** What is the force with which a body is attracted by the earth towards its centre?

A. Mass

B. Weight

C. Volume

D. Density

Q14 **CORRECT** What is called mass per unit volume of a substances?

A. Mass

B. Weight

C. Density

D. Volume

Q15 **CORRECT** What is the mass if the density of a body is  $7.6 \text{ g/cm}^3$  and its volume is  $25 \text{ cm}^3$ ?

A. 190 grams

B. 200 grams

C. 210 grams

D. 220 grams

Q16 **INCORRECT** What is the mass in gram, if a force of 15 dynes acting on a mass  $m$  producing an acceleration of  $2.5 \text{ cm/sec}^2$ ?

A. 9 grams

B. 8 grams

C. 7 grams

D. 6 grams

Q17 **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

Q18 **CORRECT** Which one is non-metal?

A. Mercury

B. Graphite

C. Brass

D. Iron

Q19 **CORRECT** Which is brittle metal?

A. Cast iron

B. Steel

C. Mild steel

D. Alloy steel

Q20 **INCORRECT** Which property of a metal possessed by it melts when heat is applied?

A. Conductivity

B. Malleability

C. Fusibility

D. Tenacity

Q21 **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%

Q22 **INCORRECT** Which rubber is used as insulator for power cables and control wires?

A. Butyl

B. Hypalone

C. Silicon

D. Nitrite butadiene

Q23 **CORRECT** Which insulator is used in over head lines?

A. Mica

B. Rubber

C. P.V.C

D. Porcelain

Q24 **CORRECT** What is the name of the property of an insulation that should brake down or puncture on application of high voltage?

A. Di-electric strength

B. Specific resistance

C. Mechanical strenth

D. Non absorption

Q25 **CORRECT** What is the diagonal of a square plate whose side is 28 cm?

A. 39.29 cm

B. 39.39 cm

C. 39.49 cm

D. 39.59 cm

Q26 **CORRECT** What is the side of a square whose area is  $625 \text{ mm}^2$ ?

A. 15 mm

B. 20 mm

C. 25 mm

D. 30 mm

**Q27** **CORRECT** What is the area of a rectangle, whose length and breadth are 10cm and 8cm respectively?

A.  $75 \text{ cm}^2$

B.  $80 \text{ cm}^2$

C.  $85 \text{ cm}^2$

D.  $90 \text{ cm}^2$

**Q28** **CORRECT** Find the total surface area of cube whose side is 25 cm.

A.  $3740 \text{ cm}^2$

B.  $3745 \text{ cm}^2$

C.  $3750 \text{ cm}^2$

D.  $3755 \text{ cm}^2$

**Q29** **CORRECT** What is the total surface area of a cylinder having radius 2 metres and height 5 metres?

A. 86 sq.metre

B. 88 sq.metre

C. 90 sq.metre

D. 92 sq.metre

**Q30** **CORRECT** What is the unit of speed?

A. Metre/second

B.  $\text{Metre/second}^2$

C. Metre/minute

D. Metre/hour

Q31 **CORRECT** What is called if a body posses only magnitude or size alone?

A. Speed

B. Velocity

C. Vector quantity

D. Scalar quantity

Q32 **CORRECT** What is the rate of change of displacement of a body?

A. Body at rest

B. Body at motion

C. Speed

D. Velocity

Q33 **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

Q34 **CORRECT** What is the retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

A.  $0.40 \text{ m/sec}^2$

B.  $0.30 \text{ m/sec}^2$

C.  $0.20 \text{ m/sec}^2$

D.  $0.10 \text{ m/sec}^2$

Q35 **CORRECT** What is the ratio of power output to power input?

A. Work

B. Energy

C. Efficiency

D. Acceleration

Q36 **CORRECT** How many newtons for 1 kilogram?

A. 981 Newtons

B. 98.1 Newtons

C. 9.81 Newtons

D. 0.981 Newtons

Q37 **CORRECT** How many watts for 1 horse power in metric system?

A. 725.5 watts

B. 735.5 watts

C. 745.5 watts

D. 755.5 watts

Q38 **CORRECT** What is the formula for potential energy?

A.  $mgh$  joule

B.  $mgh^2$  joule

C.  $\frac{1}{2} mgh$  joule

D.  $\frac{2}{3} mgh$  joule

Q39 **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

Q40 **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

Q41 **CORRECT** What is the square root of 0.017?

A. 0.001

B. 0.13

C. 0.00001

D. 0.000001

Q42 **CORRECT** What is the x value for  $x^2 + 62 = 126$ ?

A. 4

B. 6

C. 8

D. 10

**Q43** **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

**Q44** **CORRECT** What will be the rpm of smaller gear if a 180 mm dia meshes with 60 mm dia gear and the bigger gear makes 60 rpm?

A. 120 rpm

B. 140 rpm

C. 160 rpm

D. 180 rpm

**Q45** **CORRECT** What is the decimal fraction of conversion of 18.5%?

A. 0.185

B. 0.175

C. 0.165

D. 0.195

**Q46** **CORRECT** How many millimetres are there in 1 inch?

A. 2.54 mm

B. 25.4 mm

C. 24.5 mm

D. 2.45 mm

Q47 **CORRECT** What is the HCF of 18, 42, 24?

A. 2

B. 6

C. 18

D. 24

Q48 **CORRECT** Simplify:  $(\frac{3}{4})+(\frac{2}{5})-(\frac{5}{20})$

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

B.  $(\frac{9}{10})$

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

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

Q49 **CORRECT** Divide  $(\frac{20}{31})/(\frac{15}{62})$

A.  $2(\frac{4}{3})$

B.  $2(\frac{1}{3})$

C.  $2(\frac{3}{2})$

D.  $2(\frac{2}{3})$

Q50 **CORRECT** Simplify:  $(17.49 \times 5.2)/(6.5)$

A. 13.69

B. 13.79

C. 13.89

D. 13.99