

# GOVT ITI HOLENARASIPURA

## MOCK TEST -10

Q. ID: ITISKILL9070P2 | June 2026

58.00% 29 / 50

Student Name	Shivu k	Access Code	1001
Attempt No.	#1	Completion Time	11:10 AM
Rank	#38	Total Questions	50

29 SCORE

50 MAX MARKS

29 CORRECT

17 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 **UNANSWERED** 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 1ampere?

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 **INCORRECT** 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 **CORRECT** 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 **UNANSWERED** Which one is non-metal?

A. Mercury

B. Graphite

C. Brass

D. Iron

Q19 **UNANSWERED** 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 **INCORRECT** 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 **CORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** What is the rate of change of displacement of a body?

- A. Body at rest
- B. Body at motion
- C. Speed
- D. Velocity

Q33 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **UNANSWERED** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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