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Sri Mahalingeswara ITI

Question Paper

Duration: 30 Mins

Total Marks: 41

ID: ITISKILL1616FR

Student Name: _____	Roll No: _____
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1. Which energy is converted into electrical energy in hydropower stations?

- A) Light energy                      B) Heat energy  
C) Chemical energy                  D) Mechanical energy

2. How the stationary electric charges are called?

- A) Static charges                    B) Electrical charges  
C) Kinetic charges                  D) Chemical charges

3. What is the unit of electric charge?

- A) Hertz                                B) Ampere  
C) Volts                                 D) Coulomb

4. What is the purpose of standard wire gauge (SWG)?

- A) Measure current                 B) Measure voltage  
C) Measure diameter of wire     D) Measure insulation of wire

5. How the single strand wire is called?

- A) Multistrand wire                 B) Flexible wire  
C) Twisted wire                      D) Hook - up wire

6. What is stationary electric charges?

- A) Electrical charges                B) Static charges  
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8. Which cores are used in intermediate frequency transformers?

- A) Ferrite                              B) Nickel  
C) Cobalt                               D) Steel

9. Which electrical quantity is directly proportional to the current carrying capacity of the conductor?

- A) Conductor s diameter          B) Wire resistance  
C) Conductor s shape              D) Passing current

10. How the insulators are called?

- A) Molecules                         B) Semiconductors  
C) Dielectrics                        D) Thyristors

11. What is the specified Vcc voltage of 4 bit digital switch with 4 independent lines?

- A) 4.5 V to 5.5 V                    B) 5.0 V to 7.5 V  
C) 1.5 V to 2.2 V                    D) 2.3 V to 3.6 V

12. How many electrons are contained in coulomb of electric charge?

- A)  $6.25 \times 10^{16}$  electrons        B)  $6.25 \times 10^{18}$  electrons  
C)  $6.25 \times 10^{12}$  electrons        D)  $6.25 \times 10^8$  electrons

13. Which formula is used to find the conductance?

- A)  $I / V$                                 B)  $Q / V$   
C)  $I \times R$                               D)  $V / I$

14. Which terminal of the meter is connected for measuring electrical quantity?

- A) Output terminal                    B) Output terminal  
C) Input terminal                      D) Pointer mechanism

15. What is the relation of wire diameter with current carrying capacity of conductor?

- A) Inversely proportional         B) Directly proportional  
C) Wire gets less heat              D) Drops more voltage across it

16. What is the percentage of conductivity of electric current in aluminium?

- A) 0.56                                 B) 0.76  
C) 0.47                                 D) 0.22

17. Which material conducts electricity?

- A) Copper                              B) Paper  
C) Glass                                D) Mica

18. Which metal has very good conductivity to the electric current?

- A) Aluminium
- C) Copper

- B) Silver
- D) Gold

19. Which tool is used for the simplest method of skinning wires?

- A) Thermal wire stripper
  - C) Electrician's knife
- B) Manual wire stripper
  - D) Mechanical wire stripper

20. How the insulation coating stays without damage, even on bending the wire?

- A) Due to wire resistance
  - C) Due to high current flow
- B) Due to the strength of the wire material
  - D) Due to elastic property of insulation

21. Which electrical parameter opposes the flow of electrons?

- A) Resistance
  - C) Power
- B) Voltage
  - D) Current

22. What is the effect on the current flow with increased diameter of conductor?

- A) Resistance increases
  - C) Opposes more current
- B) Allows high current flow
  - D) More voltage dropped

23. How the movement of electrons through a conductor in a particular direction is called?

- A) Conductance
  - C) Electric current
- B) Resistance
  - D) Inductance

24. What is the purpose of covering provided over the electrical conductor?

- A) Decrease voltage rating
  - C) Reduce current flow
- B) Protection against weather
  - D) Increase current flow

25. What is the name of instrument used to measure electrical quantities?

- A) Meter
  - C) Tester
- B) Vernier caliper
  - D) Tester

26. Which metal has very good conductivity of electric current?

- A) Silver
  - C) Aluminium
- B) Gold
  - D) Copper

27. Which parameter of the wire is directly proportional to the current carrying capacity?

- A) Conductor s diameter
  - C) Conductor s shape
- B) Wire resistance
  - D) Passing current

28. What is the percentage of conductivity of electric current

in silver?

- A) 0.94
  - C) 1
- B) 0.67
  - D) 0.56

29. What is the name of the motion of charged particles in any medium?

- A) Resistance
  - C) Voltage
- B) Frequency
  - D) Current

30. Which material contains eight electrons in valency layer?

- A) Semiconductors
  - C) Insulators
- B) Intrinsic semiconductors
  - D) Conductors

31. How many gauge numbers in SWG, changed to double the cross section area of the conductor?

- A) Two gauge sizes decreased
  - C) Three gauge sizes decreased
- B) Four gauge sizes increased
  - D) Five gauge sizes increased

32. Which tool is used to measure the size of wire?

- A) Standard wire gauge
  - C) Feeler gauge
- B) Try square
  - D) Steel rule

33. Electrical conductivity of gold is

- A) 100%
  - C) 94%
- B) 67%
  - D) 56%

34. How the electrical quantity measured by the meter is marked in it?

- A) Printing the values
  - C) Using colour codes
- B) Printing the values
  - D) Directly printing the specifications

35. Which materials are used for semiconductor?

- A) Silicon and germanium
  - C) Silver and aluminium
- B) Gallium and indium
  - D) Arsenic and antimony

36. Which electrical property opposes the flow of electrons?

- A) Power
  - C) Current
- B) Resistance
  - D) Voltage

37. What is the percentage of conductivity of electric current in copper?

- A) 1
  - C) 0.67
- B) 0.56
  - D) 0.94

38. What is the shape of standard wire gauge?

- A) Rectangular plastic disk
- B) Circular metal disk

C) Cylindrical glass disk

D) Square metal disk

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**39.** What are the fundamental properties of insulation materials?

A) Insulation resistance and dielectric strength

B) Low resistance and thermal heat

C) Length and cross sectional area

D) Temperature and electrical hazards

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**40.** Which material is used as electrical insulator?

A) Germanium

B) Gallium

C) Aluminium

D) Porcelain

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**41.** Which electrical parameter is measured by the megger?

A) Insulation resistance

B) Current

C) Frequency

D) Voltage

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