

Duration: 60 Mins

Total Marks: 22

ID: ITISKILL5976AK

Student Name: _____	Roll No: _____
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1. What are the passive components used in electronic circuits?

- | | |
|--|------------------------------------|
| A) Resistors, capacitors and inductors | B) Transformers and semiconductors |
| C) Transistors, diodes and SCRs | D) Semi conductors and transistors |

2. What is the method of converting AC to DC power supply with two diodes and a step down transformer?

- | | |
|--------------------------|------------------------|
| A) Medium wave rectifier | B) Full wave rectifier |
| C) Half wave rectifier | D) Bridge rectifier |

3. What is the equivalent of one microfarad in farad?

- | | |
|---------------------|--------------------|
| A) 10^{-3} farad | B) 10^{-6} farad |
| C) 10^{-12} farad | D) 10^{-9} farad |

4. How the maximum reverse voltage across the diode is termed in reverse biased condition?

- | | |
|-------------------------------|-------------------------|
| A) Ripple frequency | B) Diode voltage |
| C) Peak rectification voltage | D) Peak inverse voltage |

5. How many diodes are required for making a bridge rectifier circuit?

- | | |
|---------|----------|
| A) Four | B) Three |
| C) One | D) Two |

6. What is the process involved for converting AC to DC power supply?

- | | |
|---------------|------------------|
| A) Regulation | B) Rectification |
| C) Convection | D) Inversion |

7. How the ability of a conductor is called if it induces the voltage in the same conductor?

- | | |
|--------------------|----------------|
| A) Self inductance | B) Conductance |
| C) Resistance | D) Capacitance |

8. Which component is used as a switching device in electronic circuit?

- | | |
|--------------|----------------|
| A) Capacitor | B) Zener diode |
| C) SCR | D) Diode |

9. What is the name of electronic circuit?

- | | |
|------------------------|---------------------------|
| A) Bridge rectifier | B) Quarter wave rectifier |
| C) Half wave rectifier | D) Full wave rectifier |

10. What is the reverse break down voltage range of zener diode?

- | | |
|--------------------|------------------|
| A) 0.1 to 0.5 volt | B) 1 to 3 volt |
| C) 3 to 18 volt | D) 0.5 to 1 volt |

11. Which type of diode is used for communication circuits?

- | | |
|--------------------|--------------------|
| A) Signal diode | B) Switching diode |
| C) Rectifier diode | D) Zener diode |

12. Which application uses the digital ICs?

- | | |
|----------------|----------------------|
| A) Amplifier | B) Voltage regulator |
| C) Logic gates | D) Tuned circuits |

13. What are the active components used in electronic circuits?

- | | |
|--|-------------------------------------|
| A) Resistors, capacitors and inductors | B) Transformers and inductors |
| C) Transistors, diodes and SCRs | D) Semi conductors and transformers |

14. Which device maintains a constant DC output?

- | | |
|---------------------|-----------------------|
| A) Load regulators | B) Rectifier circuits |
| C) Current limiters | D) Voltage regulators |

15. Which electronic component is the voltage regulator?

- | | |
|----------------|----------|
| A) Transistor | B) Diac |
| C) Zener diode | D) Triac |

16. What is the unit of inductance?

- | | |
|-----------|----------|
| A) Ohm | B) Henry |
| C) Ampere | D) Farad |

17. What is the unit of capacitance used with single phase induction motors in domestic RAC system?

- | | |
|-----------------|---------------|
| A) Milli henry | B) Kilo ohm |
| C) Milli ampere | D) Microfarad |

18. What is the name of active component used in electronic circuit?

- A) DIAC
- B) TRIAC
- C) SCR
- D) Transistor

19. Which material is used for making zener diode?

- A) Platinum
- B) Lead
- C) Silicon
- D) Titanium

20. Which semiconductor material is used to make diodes?

- A) Aluminium
- B) Steel
- C) Copper
- D) Silicon

21. How many terminals are there in a Silicon Controlled Rectifier (SCR)?

- A) One
- B) Three
- C) Four
- D) Two

22. Which material is used for making ICs?

- A) Mild steel
 - B) Silicon
 - C) Platinum
 - D) Carbon
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