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Question Paper of Technician 'A' (Electronics)

Full Marks 100 (Written Test: 30 Marks + Trade Test: 70 Marks)
Time Allotted: (Written Test: 30 Minutes + Trade Test: 2 Hours 30 Minutes)

Name:
Signature:

Application Number:
Date:

Group A

Answer the questions selecting Right alternative

20 X 1 = 20

1. How many junctions a PN Junction Diode has?
 - a. 1
 - b. 2
 - c. 3
2. To make a full wave Bridge rectifier at-least how many diodes are required?
 - a. 4
 - b. 2
 - c. 6
3. Forward current in a p-n junction diode flows when not in Breakdown –
 - a. In both the directions
 - b. In one direction
 - c. None of the above
4. TRIAC can be represented
 - a. By two SCRs connected in anti-parallel combination
 - b. By two SCRs connected in parallel combination
 - c. By two SCRs connected in series combination
5. Which among the following logic gates are Universal Logic gates –
 - a. XOR and XNOR gate
 - b. NAND and NOR gate
 - c. OR and XNOR gate
6. Which among the following Flip-flops suffers Race around condition –
 - a. JK Flip Flop
 - b. SR Flip Flop
 - c. D Flip Flop

7. Which among the following parameters should be checked while purchasing Rectifier diodes?
 - a. Peak Inverse Voltage
 - b. Length of the Leads
 - c. Knee Voltage
8. Zener diodes usually work –
 - a. In Forward Bias
 - b. In Reverse Bias
 - c. When it is not biased
9. Which color bands would be present on a resistor of 33 Kilo Ohms, $\pm 5\%$ –
 - a. Red, Red, Orange, Silver
 - b. Orange, Orange, Red, Golden
 - c. Orange, Orange, Orange, Golden
10. A variable capacitor can be used to design RF stage of–
 - a. A Television
 - b. A Logic gate
 - c. A Rectifier
11. An electrolytic polar capacitor used to have–
 - a. A positive lead and a negative lead
 - b. No particular lead marked as positive or negative
 - c. Both the leads marked as positive.
12. In order to transmit audio it should be–
 - a. Demodulated
 - b. Attenuated
 - c. Modulated
13. Heat-sink is used with transistors for –
 - a. Bias Stabilization
 - b. Avoiding thermal runaway
 - c. Providing support for mounting
14. How will you combine two capacitors of $100\mu\text{F}$ to make one $50\mu\text{F}$ capacitor?
 - a. By series combination
 - b. By parallel combination
 - c. By anti-parallel combination
15. Why FM signals remain less affected by noise as compared to AM?
 - a. It needs huge power to generate FM
 - b. Bandwidth requirement is less in FM
 - c. FM doesn't have any change in Amplitude.

16. What will be the value of a capacitor marked 103 on it?
- a. $0.1\mu\text{F}$
 - b. $0.01\mu\text{F}$
 - c. $0.001\mu\text{F}$
17. The number of bits used to store a BCD digit is:
- a. 8
 - b. 4
 - c. 2
18. Ohm's law describes the mathematical relationship between
- a. ohms, kilo-ohms, and mega ohms
 - b. resistor size and resistor value
 - c. resistance, voltage, and current
19. 7400 mV is same as
- a. $7.4\mu\text{V}$
 - b. 7.4 V
 - c. 74 V
20. The unit for frequency is
- a. hertz
 - b. ampere
 - c. second

Write short notes on the following:

2.5 X 4 = 10

- a. Arduino
- b. Difference between LED and LCD TV
- c. Microcontroller
- d. Wi-Fi and its use

Group B

Assemble the circuit neatly on general purpose IC PCB and check if it produces desired output

(Workmanship: 20 Marks, Completion of work: 20 Marks, Testing: 10 Marks, Functioning: 20 Marks)

Total: 70 Marks

