

MODEL QUESTION PAPER FOR FORMATIVE ASSESSMENT -1

ELECTRONICS (40)

TIME: 1 Hour

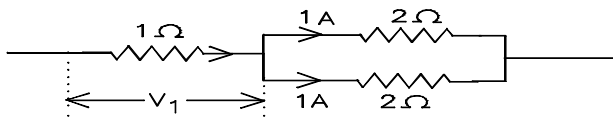
Max. Marks: 25

PART-A

Answer any five of the following.

5X1=5

1. Who invented vacuum tube diode?
2. Define Coulomb.
3. What is the internal resistance of the ideal voltage source?
4. Find V_1 in the following circuit.



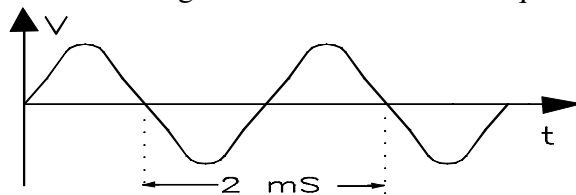
5. Sketch the saw tooth waveform.
6. Name any one active device.

Part-B

Answer any four of the following.

4X2=8

7. Write any two medical electronic equipments.
8. Write the symbols of DC & AC sources.
9. For the following waveform determine frequency.



10. Write any two variable resistors.
11. Complete the following table for the resistor R.

Sl. No.	I Band	II Band	III Band	IV Band	Value of R	Tolerance
1	Gray	Red	Orange	Silver		
2					9.1 kΩ	± 5 %

Part-C

Answer any two of the following.

2X4=8

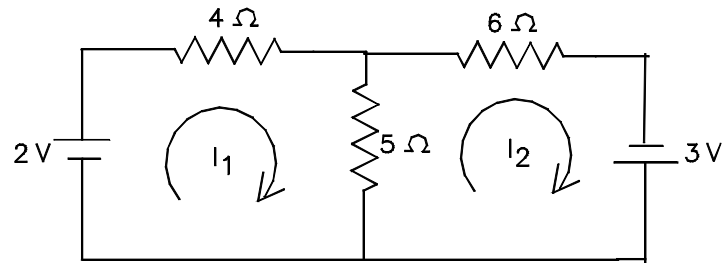
12. Write the properties of charges.
13. Obtain an expression for effective resistance when two resistors connected in series.
14. With a diagram explain construction of carbon film resistor.

Part-D

Answer any one of the following.

1X4=4

15. Determine force experienced between the two charges of $2 \mu\text{C}$ and $3 \mu\text{C}$ placed at a distance of 4 mm in vacuum.
16. Determine I_1 and I_2 in the following network.



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