

2024

FYUGP BCA/B.Sc. 2nd Semester Examination

Paper : Basic on Electronics Equipments

Paper Code : SEC 0200903

*Time : 1 hour**Full Marks : 15*

1. Find the correct answer for the following questions : 1x5=5

(a) Which of the following is a property of a resistor?

(i) Inductance

(ii) Capacitance

(iii) Resistance

(iii) Conductance

(b) What is the unit of resistance?

(i) Volt

(ii) Ampere

(iii) Ohm

(iv) Farad

(c) Which of the following is true about capacitors?

(i) They store electrical energy

(ii) They allow DC to pass through easily

(iii) They have inductance

(iv) They convert AC to DC

(d) Ohms law states that the current through a conductor between two points is directly proportional to :

(i) The resistance

(ii) The voltage across the two points

(iii) The power

(iv) The capacitance

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- (e) What is the purpose of using flux in soldering?
 - (i) To increase the melting point of the solder
 - (ii) To clean and prepare the surfaces for better bonding
 - (iii) To provide electrical insulation
 - (iv) To prevent overheating

2. Answer the following questions : (any five) 1x5=5

- (a) What is the use of Vernier calipers?
- (b) What is spherometre?
- (c) What is tester?
- (d) What is desoldering?
- (e) What is solder joints?
- (f) Write the two formulas of Ohm's law.

3. Explain any one of the following with proper diagrams :

1x5=5

- (i) Spherometer
- (ii) Screw gauge
- (iii) Vernier Calpers

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