



A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE

(AUTONOMOUS) (Grant-in-Aid)

Affiliated to Sardar Patel University

VALLABH VIDYANAGAR-388120



Bachelor of Science (Semester I) External Examination - 2024

US01IDELE01: Fundamentals of Electronics

Date: 21-11-2024, Thursday

Time: 11:00 AM to 12:30 PM

Total Marks: 25

Q.1 Write the most appropriate answer from the following multiple-choice [05] questions.

1 Junction is the point on the circuit where _____ or more numbers of components are connected together.

- | | |
|-------|-------|
| (A) 3 | (B) 2 |
| (C) 4 | (D) 5 |

2 The reciprocal of resistance is called impedance.

- | | |
|---------------|-----------------|
| (A) impedance | (B) conductance |
| (C) reactance | (D) Power. |

3 _____ limits the flow of electrical current in an electronic circuit.

- | | |
|---------------|-----------------|
| (A) Capacitor | (B) Capacitance |
| (C) Resistor | (D) Resistance |

4 When current flows through coil, it generates _____ field.

- | | |
|---------------|---------------------|
| (A) electric | (B) Electromagnetic |
| (C) inductive | (D) Magnetic |

5 The most common variable capacitor is the _____ capacitor.

- | | |
|-----------------|--------------|
| (A) Water gang | (B) Air gang |
| (C) Vacuum gang | (D) Oil gang |

Q.2 State Norton's theorem and explain it suitable circuit. [10]

OR

Q.2 Using necessary network diagram explain network terminology. [10]

Q.3 In brief explain colour coding of a resistor with example. Explain working and construction of rheostat. [10]

OR

Q.3 In brief write a note on types of inductors. [10]

