

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 1) Internal Examination - 2024
US01MIELE01: Basic Electronics

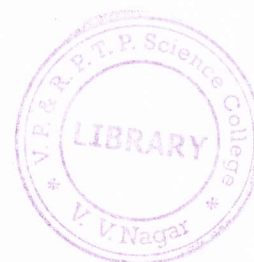
Date: 4th October 2024, Friday
Time: 11:00 AM to 12:00 PM

Total Marks: 20

Q.1 Multiple choice questions (Attempt All)

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- 1 _____ electrical component limits the flow of electrical current in an electronic circuit.
(A) Resistor (B) Capacitor
(C) Inductor (D) All of above
- 2 _____ are used to store electric energy.
(A) Resistors (B) Capacitors
(C) Inductors (D) Capacitance
- 3 When current flows through coil, it generates a _____ field.
(A) Electric (B) attractive
(C) magnetic (D) Electromotive
- 4 How many number of independent node equations are required to analyze a network having three junction point and five branches?
(A) 2 (B) 6
(C) 5 (D) 3
- 5 When two resistors are connected in parallel, their equivalent resistance _____.
(A) Increases. (B) Decreases.
(C) Remains constant. (D) Becomes Zero.
- 6 The reciprocal of resistance is called _____.
(A) Conductance. (B) Impedance.
(C) Reactance. (D) Reluctance.



Q.2 In brief explain colour coding of a resistor with example.

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OR

Q.2 Explain ferrite core inductor.

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Q.3 Write super position theorem and explain it suitable circuit.

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OR

Q.3 Explain Node pair analysis method of network analysis with necessary example.

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