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Question Paper Code: 42306

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Second Semester

Civil Engineering

14UEE206 – BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

(Common to Mechanical Engineering)

(Regulation 2014)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. If $750 \mu\text{A}$ is flowing through $11 \text{ k}\Omega$ of resistance, what is the voltage drop across the resistor?
(a) 8.25 V (b) 82.5 V (c) 14.6 V (d) 146 V
2. Which of the following are integrating instruments?
(a) Ammeters (b) Voltmeters
(c) Wattmeters (d) Ampere-hour and watt-hour meters
3. A transformer
(a) changes AC to DC (b) changes DC to AC
(c) steps up or down DC voltages (d) steps up or down AC voltages
4. A D.C. generator works on the principle of
(a) Lenz's law (b) Ohm's law (c) Faraday's law (d) None of the above
5. The barrier potential for a silicon diode at 25°C is approximately
(a) 0.4V (b) 0.3V (c) 0.7V (d) 0.5V
6. When both emitter and collector junctions are forward biased, the transistor is in which region?
(a) Active (b) Cut-off (c) Break down (d) Saturation

