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Candidate's	Seat No	•

B.Sc. Sem.-1 Examination DSC-M-113T Electronics January-2024

Time: 1-00 Hour] [Max. Marks: 25]

Instructions: (1) Symbols used here have their usual meanings. (2) Figures to the right indicate marks. 1 Explain working of P-N Junction diode. Also explain with figure its V/I characteristic in detail. (A) 05 Explain real diode in forward and reverse direction with figure. (B) 05 (A) Explain in detail about eight important P-N Junction diode ratings or specifications. 05 Explain in detail with figure alloy junction and diffused junction in P-N Junction diode. (B) 05 2 Draw & explain PNP & NPN transistor biasing in detail. (A) 05 (B) With diagram explain transistor as an an outlier. 95 (A) With diagram explain operation of PNP & NPN transistor. 05 (B) Explain common-emitter (CE) PNP transistor amplifier in detail with figure. 05 Attempt any Five out of Six. 05 A reverse-biased ideal diode looks like an resistance. A clipping circuit requires a minimum of two components: a diode and a ______. An ideal P-N junction diode acts like a _____ switch. (3)(4) The base of transistor is _____ doped. (5)Common _____ arrangement is generally used for impedance matching. In saturation region operation of a transistor both junctions are ______ biased.

