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Daffodil International University

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Midterm Examination, Fall 2022
Course Code: CSE212, Course Title: Basic Electronics
Level: 2 Term:1 Batch: 60

Time: 1 hour & 30 Min. **Marks: 25**

Answer ALL Questions

1.		Define i) Ripple Factor ii) Breakdown voltage. Explain p-type semiconductors in detail.	[2+3]	CO1
2.	*a)*	Show that a Full Wave rectifier is more effective than Half Wave Rectifier.	[5]	CO2
	b)	Explain the process of AC to DC conversion using two diodes simultaneously in detail.	[5]	
3.	*a)*	A Full-Wave rectifier uses two diodes, the internal resistance of each diode may be consumed constant at 20 Ω. If the peak inverse voltage is 150 V & load resistance is 980 Ω then solve it to get the followings: i) Mean Load Current ii) R.M.S. Value of load current	[5]	CO3
	b)	A diode's internal resistance of 10Ω is used for half-wave AC to DC conversion. If the maximum voltage is 25V & load resistance is 400Ω then solve this to get rectification efficiency.	[5]	