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IV Semester Diploma Examination, April/May-2018

ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS

Time: 3 Hours | Max. Marks : 100 (i) Answer any six questions from Part – A. (Each question carries 5 marks) Note: (ii) Answer any seven questions from Part - B. (Each question carries 10 marks) Diploma - [All Branches] PART - A Define error and explain types of errors in instruments. 1. Draw the neat sketch of permanent magnet moving coil instrument and label its parts. 2. Derive the expression of shunt resistance in extending the range of D.C. ammeter. 3. The reading of the two wattmeter connected across the load are 400 W and 1 kW, determine power and power factor of the load. 5. Derive an expression for unknown resistance by using Wheatstone bridge. List any five comparison between digital and analog meters. 6. 5 7. Draw the block diagram of digital synchroscope. Define transducer and list any three types of transducer. 8. 5 9. Draw the block diagram of a.c. signal conditioning system.

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