B.E/B.TECH, M.E/M.TECH, MBA, MCA, POLYTECHNIC & SCHOOLS

Notes
Syllabus
Question Papers
Results and Many more...

Available @ www.binils.com

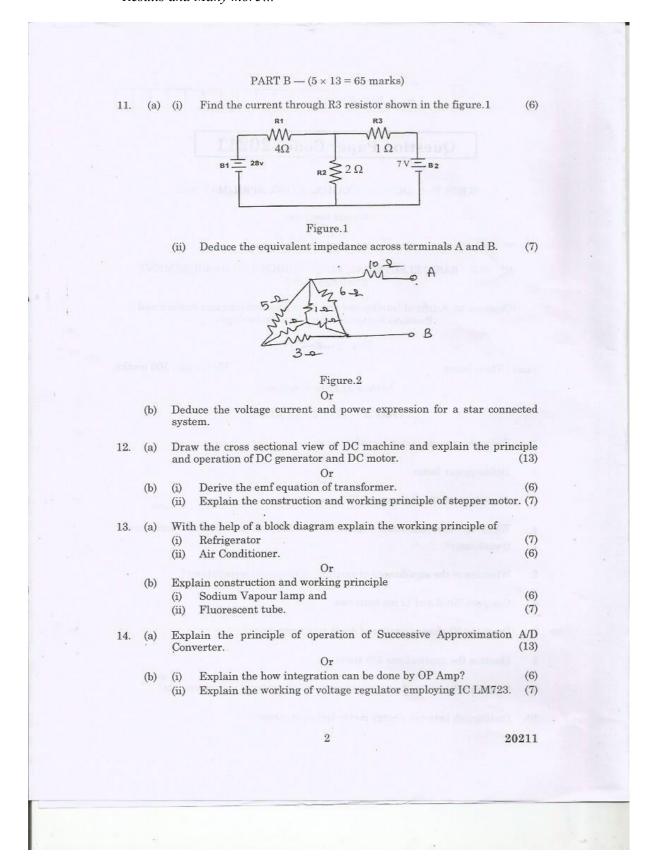
Reg. No.: Question Paper Code: 20211 B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022. Second Semester Computer Science and Engineering BE 8255 - BASIC ELECTRICAL, ELECTRONICS AND MEASUREMENT ENGINEERING (Common to: Artificial Intelligence and Data Science/Computer Science and Business Systems/Information Technology (Regulations 2017) Maximum: 100 marks Time: Three hours Answer ALL the questions. PART A — $(10 \times 2 = 20 \text{ marks})$ Define Maximum power transfer theorem. 2. Define power factor Classify the different types of DC generators. What is the difference between distribution transformer and power transformer? What are is the significance of earthing in electrical installations? Compare NiCd and Li ion batteries. 6. Draw the VI characteristics of diode and zener diode. Mention the applications 555 timer. What are the types of error that can occur in electrical measurements? 10. Distinguish between energy meter and watt meter.

B.E/B.TECH, M.E/M.TECH, MBA, MCA, POLYTECHNIC & SCHOOLS

Notes
Syllabus
Question Papers
Results and Many more...

Available @

www.binils.com



B.E/B.TECH, M.E/M.TECH, MBA, MCA, POLYTECHNIC & SCHOOLS

Notes Syllabus Question Papers Results and Many more...

Available @

www.binils.com

 (a) Explain the principle of operation, merits and demits of moving coil instruments. (13)

Or

(b) Briefly explain the construction and working principle of CRO. (13)

PART C — $(1 \times 15 = 15 \text{ marks})$

16. (a) (i) Deduce the thevenin equivalent of the circuit across terminals AB.

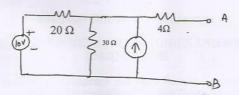
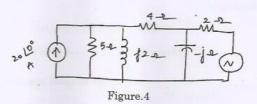


Figure.3

(ii) By employing superposition theorem find the current through (8

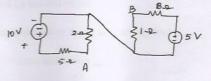


Or

(b) (i) Determine the Norton's equivalent across terminal A and B. (7)



(ii) Determine thevenin's equivalent across terminal A and B. (8)



3

20211