

Code No.: 5240

FACULTY OF ENGINEERING B.E. 2/4 (CSE) II Sem. (Suppl.) Examination, January 2012 ELECTRICAL CIRCUITS AND MACHINES

Time: 3 Hours]

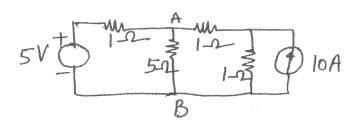
[Max. Marks: 75

Note: Answer **all** questions from Part **A**.

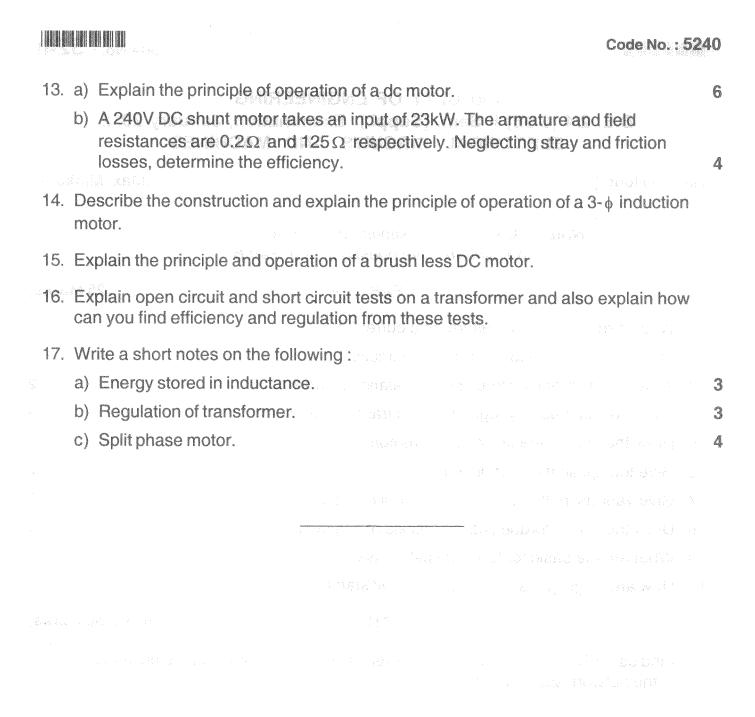
Answer **any five** questions from Part **B**.

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1.	What is rms value of an alternating current?	2
2.	Explain dot convention in inductive circuits.	. 22 - NEW V. 3
3.	What do you mean by three phase balanced load?	2
4.	What do you mean by regulation of a transformer?	3
5.	Draw the characteristics of shunt motors.	. #GZ : 0 3
6.	Give the applications of dc motors.	2
7.	Give various methods of speed control of induction motors.	2
8.	Draw the speed torque characteristics of induction motor.	3
9.	What are the basic features of split-phase motors?	3
10.	How are single phase motors made self starting?	2
	PART-B	(5×10=50 Marks)

11. Find using Thevinins theorem, the current in the 5Ω resistor connected across AB in the network shown in figure.



12. A balanced load of $(8+j6)_{\Omega}$ per phase is connected to a 3-phase, 230V, 50Hz supply. Find the line current, power factor, real power, reactive power and apparent power.



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