10/12/15

QP Code: 2157

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N.	В:	 (1) Q.1 is compulsory. (2) Attempt any four questions out of remaining six questions. (3) Assume suitable data if necessary and justify the same. 	?
1.	(a)		10
	(b)	What are various types of enclosures for motor.	5
	(c)	What is specific magnetic and electric loading in tranformer.	5
2.	(a)	Derive the output equation of three phase transformer.	10
	(b)	Derive output equation of induction motor.	10
3.	(a)	Discuss the no load current calculation in transformer.	10
	(b)	Discuss the magnetization current calculation in induction motor.	10
4.	(a)	Discuss the various types of windings used in transformes.	10
	(b)	Discuss the designing of wound rotor.	10
5.	(a)	Derive the equation for leakage reactance of a two winding transformer.	10
	(b)	Discuss the various modifications in the design of induction motor.	10
6.	(a)	Discuss the various cooling methods in transformer.	10
	(b)	What are desired properties of insulating materials. State the insulating materials used in transformer.	10
7.	(a)	Discuss the total resistance calculation procedure in transformer.	10
	(b)	Discuss the designing of squirrel cage rotor.	10