USN

Sixth Semester B.E. Degree Examination, June/July 08 Testing and Commissioning of Electrical Equipment			
Tim	1e: 3	hrs. Note: Answer any FIVE full questions. Max. I	Marks:100
1	a. b. c.	Explain the various types of cooling of power transformers. What are the standard specifications of a power transformer? Mention and explain the typical test carried out on transformer before commission	(10 Marks) (04 Marks) ning. (06 Marks)
2	a. b. c.	What are the qualities of a good insulating oil? Explain the procedure for drying of windings of transformer with and without oil.	(06 Marks) (04 Marks) (10 Marks)
3	a. b. c.	Explain the working of a Buchholtz relay with the help of a diagram.	(05 Marks) (05 Marks) (10 Marks)
4	a. b.	uctaii.	one test in (10 Marks) (10 Marks)
5	a. b.	Explain how you obtain the performance of an induction motor in respect of i) Speed ii) Power factor iii) Efficiency iv) Slip v) Current. Explain the measurement of vibration and balancing of rotating machines.	(10 Marks) (10 Marks)
6	a. b. c.	Enumerate the various steps of installation of a synchronous machine. Define short circuit ratio of synchronous machine and explain how it is obtained. Give the details of excitation system used in synchronous machine.	(07 Marks) (07 Marks) (06 Marks)
7	a. b.	Explain the method of determining the insulation resistance of an alternator. State and explain the various abnormal conditions in synchronous generator effects.	(10 Marks) and their (10 Marks)
8	a.	State the various types of tests performed on high voltage A.C circuit breaker.	(10 Marks)

a. State the various types of tests performed on high voltage A.C circuit breaker.b. Write explanatory notes on maintenance of circuit breakers.

(10 Marks)