DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination – March. 2019

Course: B. Techin Electrical, Electronics and Power EngineeringSem.: II

Subject Name: Power system:ISubject Code:BTEEC402

Max Marks:20 **Date:- 12/03/2019** **Duration:- 1 Hr.**

Instructions to the Students:

1. Please check whether you have got the right question paper
2. Clearly mention the main question number along with the sub questions.
3. Question No. 1 is compulsory.
4. Figures carries marks.

			Marks
Q. 1		**Select the right choice from the given answers**	6
	A	The conductor carries more current on the surface in comparison to its core. This phenomenon is called the a) Skin effect b) Ferranti effect c) Corona d) Lenz's effect	
	B	The major heat loss in a steam power station occurs in ..... a.Heat chamber b.Penstock c.Spillways d.Condenser	
	C	The thermal efficiency of a steam power station is..... a.38% b.28% c.40% d.45%	
	D	The power output from a hydro-electric power plant depends on three parameters..... a.Head,type and dam of discharge b.Head,discharge and efficiency of the system c.Efficiency of the system,type of draft tube and type of turbine used d.Type of dam,discharge and type of catchment area	
	E	What is the maximum transmission voltage substation in India: a)400kV b)500kV c)750kV d) 1000 kV	
	F	Transposition of transmission line is done to a) Reduce corona b) Balance line voltage drop c) Reduced skin effect d) Reduce line loss	
Q.2		**Solve Any Two of the following.**	3X2
	(A)	A single phase transmission line has two parallel conductors 3 meters apart , radius of each conductor being 1cm. Calculate the capacitance of the line per km.	
	(B)	Define the terms: a.Load curve b. Demand factor, c. Diversity factor	
	(C)	How to increase the efficiency of plant? Explain plant economics.	