MODEL QUESTION

BRANCH-ELECTRICAL ENGINEERING

SUBJECT-ELECTRICAL ENGINEERING DRAWING, 4th SEM)

PREPARED BY- Er. SOUMYA RANJAN PATTANAYAK

(LECT. ELECTRICAL ENGG. DEPT.)

EMAIL-srp9853@gmail.com

MOB-7008715302,98536655069



या कुन्देन्दुतुषारहारधवला या शुभ्रवस्त्**रावृता** या वीणावरदण्डमण्डितकरा या श्वेतपद्मासना। या ब्रह्माच्युतशंकरप्रभृतिभिर्देवैः सदा वन्दिता सा मां पातु सरस्वती भगवती निःश्रेषजाडचापहा ॥

1. Draw Single bus-bar arrangement (single generator).

- 2. Draw a diagram of two numbers of stay used with the dead end of an over-head distribution pole including foundation of the pole and label the various parts of the arrangement.
- 3. Draw a diagram of a double pole structure with lightning arresters, used at dead end of an over head H.T. line.
- 4. Draw a diagram of a double pole structure showing the use of jumpers.
- 5. Develope asimple lap winding for a dc machine having 32 armature conductors, and 4 poles. Also show the equilizer ring.
- 6. Develope a simple wave winding for a dc machine having 34 armature conductors and 4 poles.
- 7. Develope simple wave winding for 4 pole dc machine having 42 armature conductors. (Retrogreaaive winding).
- 8. Draw the following views of a3-phase , 250 kva 11kv/400 vtransformer.
 - a. Front elevation full in section
 - b. Plan full in section
 - Core-

	i.	Cross section of the core	=	3 step core
	ii.	Dia of the circum circle		=24 cm
	iii.	Distance between the adjacent		
		Centres of core		=42.5 cm
Yoke				
	i.	Yoke height		=25 cm
L.T. W	inding/			
	i. out	side dia of LT coil	=28.3 cm	
	ii. insi	de dia of LT coil	=25 cm	
	iii.Height of LT winding		= 43.5 cm	
	iv.	Number of turns per phase	=12	
HT Winding				
	i.	out side dia of HT coil	=41.5	ст
	ii.	. inside dia of HT coil	=34.3	ст
	iii.	Height of HT winding	=43.5	ст
	iv.	Number of turns per phase	= 572	
Total height of the transformer			= 100 cm	

Other missing data may be assumed.

- 9. Draw the diagram of an autotransformer starter.
- 10. Draw the diagram of a star delta starter with over load protection and no volt coil.
- 11. Draw a 3-point starter.
- 12. Draw a 4-point starter.
- 13. Draw a dol starter.
- 14. Draw a neat sketch of atypical "plate earthing" and give standard dimensions.
- 15. Draw aneat sketch of a typical pipe earthing and give standard dimensions.
- 16. Draw the single line diagram of a 11kv/400 v substation.
- 17. Draw the single line diagram of a 33/11 kv substation.



THE REAL HEROS OF OUR SOCIETY

SALUTE THEM FROM HEART

STAY HOME STAY SAFE

