

# MONTHLY TEST - I

SUB - GTD

SEM - 4<sup>TH</sup>

Answer all the questions:

Q1) A medium 1- $\phi$  transmission line 100 km long has the following constants.

$$R/\text{km} = 0.25 \Omega$$

$$X/\text{km} = 0.8 \Omega$$

$$\text{Susceptance per km} = 140 \times 10^{-6} \text{ Siemens}$$

$$V_R = 66 \text{ kV}$$

Assume that the total capacitance of the line is localised.

Find (i)  $I_S$

(ii)  $V_S$

(iii) Voltage Regulation (%V)

Q2) Explain Thermal Power Station with a neat sketch?

\_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_

MONTHLY TEST - II

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Q) State the various equipments with drawing necessary circuit diagrams & their function in a transformer sub-station?