VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY (VSSUT), ODISHA Odd Mid Semester Examination for Academic Session 2024-25

COURSE NAME: B.TECH

SEMESTER:1st

BRANCH NAME: D, E, F, G, H, I, J SUBJECT NAME: BASIC ELECTRICAL ENGG.

FULL MARKS: 30

TIME: 90 Minutes

Answer All Questions.

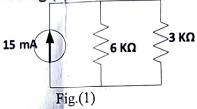
The figures in the right hand margin indicate Marks. Symbols carry usual meaning.

Q1. Answer all Questions.

 $[2 \times 3]$

a) Find the current in $3K\Omega$ resistor in fig.(1)

- CO1



b) Define Form Factor & Peak factor?

- CO2

c) What are the different types of magnetic material? Give example each of them.

- CO3

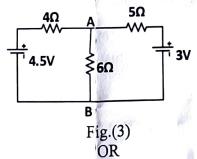
Q2.

[4+4]

a) Using Nodal analysis find the current in various resistors of the circuit shown in - CO1 fig.(2)

Fig. (2) b) Using the venin's Theorem find the current in 6 Ω in the Fig.(3)

-CO1



a) Calculate the current in each branch of the circuit shown in fig. (4)

- CO1