Total No. of Pages: 03

Roll No. 1756

B.Tech.(all branches)

IInd Semester

MID SEMESTER EXAMINATION

(March.-2017)

x0.5 + C

EE-102: Basic Electrical Engineering

Time: 1 h 30 minutes

Max. Marks: 30

Note: All Questions are compulsory. Question no. 1 to 7 carry 2 marks each and Question 8 to 11 carry 4 marks each. Special material required-Graph Paper. Assume suitable missing data, if any.

Verify superposition theorem for y = f(x) = 7x + 3.

What will happen if Switch is closed in the following Fig. 1.

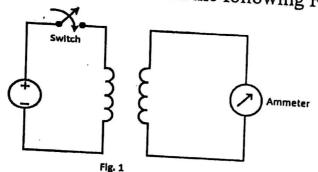
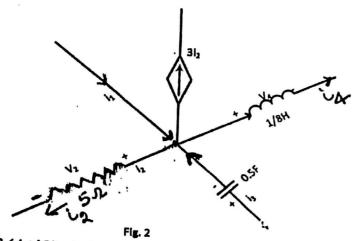


Fig. 2 shows one node of an electric circuit, using KCL, finds V. Given



An AC current of (4+j3) A flows through a resistance of 10Ω . Find the real power consumed.

P.T.O.