Question Paper

Exam Date & Time: 02-Jun-2022 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

INTERNATIONAL CENTRE FOR APPLIED SCIENCES II SEMESTER B.Sc.(Applied Sciences) in Engg. END SEMESTER THEORY EXAMINATION- MAY/JUNE-2022

Elements Of Electrical and Electronics Engg. [IEE 121]

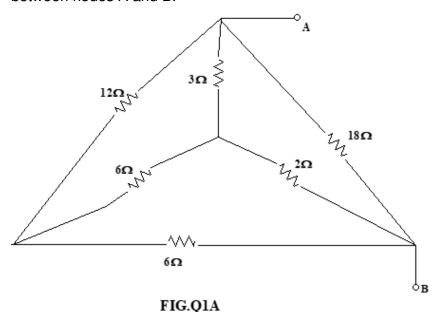
Marks: 50 Duration: 180 mins.

Answer all the questions.

Missing data may be suitably assumed

For the network shown in Fig.Q1A calculate the equivalent resistance between nodes A and B.





- B) Given phasor A=6.34+j13.5 and phasor B=20∠-35°. Write down the following in polar form
 - (a) A/B
 - (b) (A+B)/(A-B)
 - (c) $(A+B)\times B/(A-B)\times A$
- C) A single phase transformer has 400 primary and 1000 secondary turns. The net cross-sectional area of the core is 60cm². If the primary winding is

connected to a 50Hz supply at 500V. Calculate

(3)