

B.Tech. 4th Semester (EEE) (F-Scheme) Examination.
May-2018
TRANSMISSION & DISTRIBUTION
Paper-EE-212-F

Time allowed : 3 hours] [Maximum marks : 100

Note : All questions carry equal marks. Question No. 1 is compulsory & attempt any one question from each section.

1. (a) Explain & derive layout and Transmission system.
- (b) Discuss graphical symbols for various types of apparent & circuit elements on substation main connection diagram.
- (c) Explain equalizer ring
- (d) Discuss circle diagram. 20

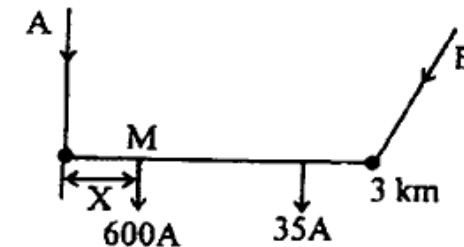
Section-A

2. (a) Describe advantages & disadvantages of outdoor substations. 20
- (b) Explain types of distribution systems.
3. A train is running from station "A" & is crossing another train standing at 3 km from station B. The loading to running train is 600A, while at standing it takes 60A as shown in fig. What will be the position. of the running

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train for having min. potential at a point in the section having distance 8 km between station A & B, if both the ends maintained at equal DC potential. 20



Section-B

4. (a) Discuss Proximity effect in detail. 20
- (b) What is meant by GMD & GMR ?
5. Explain how Transmission lines are classified into short, medium & long lines, explain their characteristics. 20

Section-C

6. (a) What is a Sag-template ? How is it useful for location of towers and stringing of Power conduction ? http://haryanapapers.com 20
- (b) Explain how the effect of wind, ice can be included in sag calculation of transmission lines.
7. (a) List the basic tests that are carried out on insulators. 20

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- (b) Explain with the neat sketch, the constructional features of pin type insulator.

Section-D

8. (a) Describe in brief with neat sketch one method of laying UG cable. 20
(b) Show that insulation resistance of a cable is inversely proportional to its length.
9. (a) Application of HVDC Transmission.
(b) Corona effect.

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