

Q.P. Code : 1698

(3 Hours)

[Total Marks : 100

- N.B. :** (1) Question No 1 is Compulsory
 (2) Solve any Four Questions out of remaining
 (3) Assume the suitable data if required and specify the same

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| 1. Solve the following questions :- | 20 |
| (a) What is gradient factor | |
| (b) Discuss corona QV diagram | |
| (c) What are various sources for absorption of reactive power | |
| (d) What is the role of ground wire | |
| 2. (a) Discuss reactive power requirement of line. | 10 |
| (b) Discusses the Mangold Formula. | 10 |
| 3. (a) Discuss advantages and disadvantages of corona. | 10 |
| (b) Discuss the term radio and television interference in corona. | 10 |
| 4. (a) Discuss the volt time curve in insulation coordination. | 10 |
| (b) Discuss the lightning phenomenon. | 10 |
| 5. (a) Discuss any one type of lightning arrester. | 10 |
| (b) Discuss the phenomenon of capacitance switching. | 10 |
| 6. (a) Discuss the Fortesque theorem for symmetrical component transformation. | 10 |
| (b) Discuss the Z bus formation technique. | 10 |
| 7. (a) Discuss the terms short circuit MVA and transient. | 10 |
| (b) Discuss the I.G fault. | 10 |

QP-Con. 9259-15.

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