

15259

B. Tech 7th Semester Examination
High Voltage Engineering & DC (OS)

EEE-7004

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all selecting at least one question each from section A, B, C & D. Section E is compulsory.

SECTION - A

1. (a) What is Corona Discharge? Discuss about corona discharges due to direct and alternating voltages. (10)
- (b) Characterize Uniform and Non-Uniform Fields. How they influence electric breakdown of an insulation system? (10)
2. (a) Describe various theories of breakdown in liquid dielectrics. (10)
- (b) Discuss various factors which affect breakdown of gases. (10)

SECTION - B

3. (a) Explain how transmission lines and substation are protected against lightning. (10)
- (b) Write a few characteristics of lightning stroke. (10)
4. (a) Explain different high voltage tests carried out on power transformers. (10)
- (b) Discuss different methods of generating high D.C. Voltages. (10)

[P.T.O.]

SECTION - C

5. (a) Explain working of electrostatic voltmeter. (10)
- (b) Draw a typical impulse current generation circuit and explain its operation and applications. (10)
6. (a) Explain with neat sketch how can rod gaps be used for measurement of high voltage. (10)
- (b) What is Cathode Ray Oscillograph? Explain its application in high voltage laboratory. (10)

SECTION - D

7. (a) Explain working of HVDC circuit breaker. (10)
- (b) List various types of DC links and using their schematic diagrams distinguish between them. (10)
8. (a) Discuss the advantages and limitations of HVDC system. (10)
- (b) Draw typical layout of an HVDC substation. (10)

SECTION - E

9. (a) What do you mean by Paschen's Law?
- (b) What is the significance of impulse tests?
- (c) What is meant by insulation Co-ordination?
- (d) What are the characteristics of an ideal surge arrester?
- (e) Mention three most important properties of liquids.
- (f) Draw the exact circuit of single stage impulse generator.
- (g) For what measurement in high voltages, electrostatic voltmeters are used.
- (h) What is a lightning arrestor?
- (i) What do you mean by Tracking?
- (j) How is impulse voltage measured by C.R.O?

(10x2=20)

[Total No. of Questions - 18] [Total No. of Printed Pages - 2]
(2125)

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MBA 3rd Semester Examination
Advanced Financial Management (NS)
FM-01

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

SECTION - A

Ten Short note types questions carry two marks each. All the questions are compulsory.

Write Short note on the following:

1. Simulation.
 2. Business Reorganisation.
 3. Multiple Discriminant.
 4. Risk and Uncertainty.
 5. Capital Budgeting.
 6. Break Even Point.
 7. Replacement Decision.
 8. Take over code.
 9. Working Capital Estimation.
 10. Dividend policy in present economic environment.
- (10×2=20)

[P.T.O.]

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SECTION - B

Five short answer type questions carry five marks each. Answer any four question.

11. Explain Corporate Debt Capacity Management.
12. How capital expenditure can be managed effectively in this era of globalisation?
13. Why mergers are adopted by companies?
14. Elucidate determination of exchange ratio.
15. Discuss the significance of regress analysis and simulation.
(4×5=20)

SECTION - C

Three essay type questions of 10 mark each. Answer any two question.

16. Write a detailed note on capital expenditure under conditions of risk and uncertainty.
17. Elaborate sequence of decisions as per the current business environment.
18. What is Miller-Modigliam's dividend irrelevance hypothesis? Critically evaluate its assumptions.
(2×10=20)