

Hall Ticket Number :

**R-17**

**Code: 7G674**

IV B.Tech. I Semester Supplementary Examinations July 2021

**Disaster Management**  
( Common to All Branches )

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit ( 5 x 14 = 70 Marks )

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Marks CO Blooms Level

**UNIT-I**

1. a) Demonstrate natural disaster and man-made disaster, what are the effects of disasters on environmental health facilities and services. 7M CO1 L2  
b) Explicit an account on different approaches to disaster management and relation with human ecology. 7M CO1 L2

**OR**

2. a) Summarize the concept of first responder with special reference to the role of the government in first response. 7M CO1 L1  
b) Discuss various methods for rescuing affected persons in a disaster situation. 7M CO1 L1

**UNIT-II**

3. a) State epicenter and focus? Create with a neat diagram? Based on depth how many types of earthquake are classified. 8M CO2 L1  
b) Explore plate tectonic movements, describe landslides. 6M CO2 L1

**OR**

4. a) Explicit a note on man-made landslides. State what are the mitigation measures at the time of land-slides? 7M CO2 L5  
b) Explore various environmental Impacts of Volcanic Eruptions 7M CO2 L5

**UNIT-III**

5. a) Describe a flow chart of planetary and extra planetary hazard. 6M CO3 L3  
b) Elucidate the consequences of the phenomenon of drought? Summarize briefly. 8M CO3 L3

**OR**

6. a) Distinguish the difference between natural disaster and man-made disaster. 7M CO3 L2  
b) Examine the role of corporate social responsibility as an emerging avenue in managing disasters. 7M CO3 L2

**UNIT-IV**

7. a) What are the important steps in relief distribution and summarize the different types of damages that occur due to disasters. 8M CO4 L4  
b) Illustrate the floods hazards of India in the past years. 6M CO4 L4

**OR**

8. a) Explicit a note on floods and discuss its types and causes. 6M CO4 L1  
b) Summarize briefly the pattern of global population growth in recent years which is causing alarm to environmental experts. 8M CO4 L1

**UNIT-V**

9. a) List out some guidelines for achieving sustainable development. 6M CO5 L5  
b) Explicit the methods to predict natural disasters and discuss the role of technology in disaster management. 8M CO5 L5

**OR**

10. a) Summarize the different types of damage reports. Identify the different types of rehabilitation. 8M CO5 L3  
b) Discuss the role of technology in disaster management. 6M CO5 L3

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<b>R-17</b>
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**Code: 7G273**

IV B.Tech. I Semester Supplementary Examinations July 2021

**Distribution of Electric Power**

( Electrical and Electronics Engineering )

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit ( 5 x 14 = 70 Marks )

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	Marks	CO	Blooms Level
<b>UNIT-I</b>			
1. a) Explain what is meant by (i) load factor (ii) diversity factor (iii) contribution factor. Discuss the characteristics of different loads.	7M	01	02
b) What is loss factor? How is it related to load factor? Explain its significance.	7M	01	02
<b>OR</b>			
2. a) Explain how load growth is estimated. How is diversified maximum demand computed? Illustrate with an example.	7M	01	02
b) Explain why deviation of (i) voltage (ii) frequency be taken into consideration for estimating the load on the distribution system. Give the empirical relation for change in 'P' and 'Q' with the above Variations.	7M	01	02
<b>UNIT-II</b>			
3. a) How do you choose the primary feeder arrangement from reliability point of view? Discuss the arrangements with suitable diagrams	7M	02	02
b) What is the advantage of square-type distributor and service area and how is the substation capacity arrived at?	7M	02	02
<b>OR</b>			
4. Explain in detail a) principle of operation, b) coordination, c) procedure for general coordination of protective devices.	14M	02	02
<b>UNIT-III</b>			
5. a) Draw a line diagram of a radial-type primary feeder. Mention the factors that influence the selection of primary feeders.	7M	03	02
b) Explain the factors governing site selection and classification of substation.	7M	03	02
<b>OR</b>			
6. Explain in detail different types of bus bar arrangement in substation. Utilize graphical illustration wherever required.	14M	03	02
<b>UNIT-IV</b>			
7. a) Explain how reduction in line current and hence power losses are obtained with p.f improvement.	7M	04	02
b) Compare and Explain Phase advancers and generation of reactive power using static Capacitors	7M	04	04
<b>OR</b>			
8. Explain in detail about voltage control using i) Excitation control, ii) Shunt Capacitors and reactors, iii) Series Capacitors.	14M	04	02
<b>UNIT-V</b>			
9. a) What is Distribution planning and explain factors affecting system planning.	7M	05	02
b) Paraphrase the importance of Load Forecasting. Explain any one method of load forecasting in detail.	7M	05	02
<b>OR</b>			
10. a) Explain in detail distribution system planning model	7M	05	02
b) Give insight on Present Distribution System Planning Techniques	7M	05	02

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<b>R-17</b>
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**Code: 7GA71**

IV B.Tech. I Semester Supplementary Examinations July 2021

**Human Resource Management**

( Common to All Branches )

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit ( 5 x 14 = 70 Marks )

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Marks	CO	Blooms Level
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**UNIT-I**

- |  |    |     |   |
|--|----|-----|---|
| 1. a) What is HRM? Explain its nature and Scope. | 7M | 1,2 | 1 |
| b) Explain HRM Operational Functions.            | 7M | 1,2 | 2 |

**OR**

- |  |    |      |   |
|--|----|------|---|
| 2. a) What is Ethics? Enumerate the need of ethical aspects of HRM | 7M | 1, 2 | 4 |
| b) Differentiate personnel management and HRM                      | 7M | 1, 2 | 5 |

**UNIT-II**

- |  |    |         |   |
|--|----|---------|---|
| 3. a) Elicit the role of Human Resource Information System in an organization. | 7M | 6, 7 8  | 2 |
| b) What are the different factors affecting HRP.                               | 7M | 6, 7, 8 | 4 |

**OR**

- |   |    |         |   |
|---|----|---------|---|
| 4. a) Define Job Description. What items are typically included in the Job Description? | 7M | 6, 7, 8 | 1 |
| b) Describe Job Description and its importance.   | 7M | 6, 7, 8 | 2 |

**UNIT-III**

- |  |    |      |   |
|--|----|------|---|
| 5. a) What is recruiting? Explain process and factors affecting recruitment. | 7M | 1, 4 | 4 |
| b) Write about the importance of internal recruitment methods.               | 7M | 1, 4 | 2 |

**OR**

- |  |    |      |   |
|--|----|------|---|
| 6. a) Explain the emerging trends in Employee Selection Process. | 7M | 1, 4 | 2 |
| b) Define placement and orientation role in HRM                  | 7M | 1, 4 | 1 |

**UNIT-IV**

- |   |    |         |   |
|---|----|---------|---|
| 7. a) List and briefly explain each of the steps in the Training Process. | 7M | 3, 4,5  | 1 |
| b) Explain different methods of training.                                 | 7M | 3, 4, 5 | 2 |

**OR**

- |  |    |         |   |
|--|----|---------|---|
| 8. a) Define the process of Career stages and Development    | 7M | 3, 4,5  | 1 |
| b) List the advantages and disadvantages of training process | 7M | 3, 4, 5 | 1 |

**UNIT-V**

- |   |    |          |   |
|---|----|----------|---|
| 9. a) Define compensation? Explain various components of pay structures in India. | 7M | 3, 4, 5  | 1 |
| b) List out various types of compensation process                                 | 7M | 3, 4, 5, | 1 |

**OR**

- |   |    |         |   |
|---|----|---------|---|
| 10. a) Write a note on Industrial Relations objectives, need and parties involved | 7M | 3, 4, 5 | 3 |
| b) Define the need of Performance Appraisal                                       | 7M | 3, 4, 5 | 1 |

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