

Disaster Management

Time: 3 hours

Answer All Questions

Max. Marks: 70

PART-A

10X2M=20M

	CO	BTL
1. a. What is environmental hazard?	1	1
b. Define human ecology and ecosystem.	1	1
c. What is meant by planetary hazards?	2	1
d. Write down the different types of man induced disasters.	2	2
e. What is an earthquake?	3	1
f. What is meant by landslides?	3	1
g. What are the different types of volcano?	4	1
h. Define heat wave and floods.	4	1
i. What are the three stages of disaster management?	5	1
j. Define pre-disaster stages.	5	1

PART-B

5 X 10M = 50M

	M	CO	BTL
2. Explain briefly about the concept of environmental stress and disaster.	10M	1	2
OR			
3. Explain clearly about landscape approach and perception approach of disaster management.	10M	1	2
4. How the manmade hazards controlled and regulated? Discuss.	10M	2	2
OR			
5. Discuss about Endogenous Hazards and Exogenous Hazards.	10M	2	3
6. What are the hazardous effects of volcanic eruptions? Explain.	10M	3	1
OR			
7. Explain Human adjustment, perception and mitigation of earthquake in India.	10M	3	2
8. What are the causes of floods? Explain the flood control measures in brief.	10M	4	1
OR			
9. Discuss different frequent and infrequent events in detail.	10M	4	3
10. Write short notes on emergency stage in disaster management.	10M	5	2
OR			
11. What is meant by post disaster stage? Explain clearly.	10M	5	1

Project Management and Finance

Time: 3 hours

Answer All Questions

PART-A

Max. Marks: 70

10X2M=20M

	CO	BTL
1. a. Define Project Management.	1	1
b. Explain steps involved in project life cycle and phases.	1	2
c. What is PERT?	2	1
d. Write the rules for network construction.	2	1
e. What is risk of a Project?	3	1
f. List the strategies employed in managing the risk.	3	1
g. Explain the elements in capital structure.	4	2
h. What is debenture?	4	1
i. Explain features of Public – Private Partnership.	5	2
j. What is Venture Capital?	5	1

PART-B

5 X 10M = 50M

	M	CO	BTL
2. a. Explain the essence of Project Management.	5M	1	2
b. What are the pre-requisites for successful project implementation? Explain.	5M	1	2
OR			
3. a. Identify and explain the process involved in Project Management.	5M	1	3
b. What is Project Selection? Explain project portfolio management system.	5M	1	2
4. a. What are the components of cost of a Project.? Explain.	5M	2	2
b. How various financial estimates and projections are interrelated? Explain.	5M	2	2
OR			
5. a. Explain the process of development of project network.	5M	2	2
b. What are the steps involved in PERT analysis? Elaborate.	5M	2	3
6. a. Explain the risk management process in detail.	5M	3	2
b. Analyze the sources, measures and perspectives on risk.	5M	3	4
OR			
7. a. What is resource allocation? Explain.	5M	3	2
b. Explain the process of selection of project under risk.	5M	3	2
8. a. Explain the rights and duties of equity shareholders.	5M	4	2
b. What are the advantages and disadvantages of preference capital? Explain.	5M	4	2
OR			
9. a. What is a debenture? Explain its types.	5M	4	2
b. Explain the types of bonds and debentures.	5M	4	2
10. a. Explain the characteristics of a infrastructure project.	5M	5	2
b. Explain the structure of Public Private Partnership.	5M	5	2
OR			
11. a. What is a venture capital investment? Explain.	5M	5	2
b. Explain the current scenario of Indian VC – Industry.	5M	5	2

Software Project Management

Time: 3 hours

Answer All Questions

Max. Marks: 70

PART-A

10X2M=20M

	CO	BTL
1. a. Describe the three generations of software economics?	2	1
b. Define Macroprocess and Microprocess?	2	1
c. State some popular cost estimation models?	1	1
d. List out five basic parameters of software cost model?	1	1
e. Define work break down structure?	4	1
f. What is Round-Trip Engineering?	4	1
g. List the Management Artifacts?	3	1
h. Difference between Inception and Elaboration phase?	3	2
i. List the seven-core metrics related to project control?	5	1
j. Define MTBF?	5	1

PART-B

5 X 10M = 50M

	M	CO	BTL
2. a. Explain the waterfall model and its significance in software project management?	5M	1	2
b. State Boehm's "Industrial Software Metrics" top 10 list?	5M	1	1
OR			
3. a. Explain in detail about pragmatic software cost estimation?	5M	1	2
b. Explain about the five basic parameters that most software models can be abstracted into?	5M	1	2
4. a. Explain important trends in improving Software Economics?	5M	2	2
b. Illustrate the principles of Modern Software Management?	5M	2	3
OR			
5. a. Classify the three levels of processes and their attributes in improving software process?	5M	2	2
b. Explain principles of conventional software engineering?	5M	2	2
6. a. What is a workflow? Explain in detail the process workflows?	5M	3	2
b. Describe the artifact sets?	5M	3	2
OR			
7. a. Explain briefly two stages of the life cycle engineering and production?	5M	3	2
b. Write a short note on Management Artifacts and Engineering Artifacts?	5M	3	2
8. a. Explain the responsibilities of any two component teams in a line of business organization?	5M	4	2
b. Discuss about tools in Automation building blocks?	5M	4	2
OR			
9. a. Explain Major and Minor Milestones with respect to the software process?	5M	4	2
b. Write a short note on cost and schedule estimation process?	5M	4	2
10. a. State the Seven Core metrics that are used in managing the software process?	5M	5	2
b. Discuss in detail about next generation software economics?	5M	5	2
OR			
11. a. Explain about the four quality indicators used in the software Process?	5M	5	2
b. Write short notes on Pragmatic software metrics?	5M	5	2