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M.Sc. (Physics) (Semester – 3rd)

DISASTER MANAGEMENT

Subject Code: BCIEO1001

Paper ID: [18OE220701]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(4 marks each)

- Q1. Discuss the relationship between disaster, hazard, vulnerability, risk & capacity. Provide examples to illustrate how these concepts interrelate in the context of disaster management.
- Q2. How does the preparedness phase contribute to effective disaster response and what role does mitigation play in reducing the impact of future disasters?
- Q3. Discuss disaster profile of India and give example of any four major disasters which happened in India.
- Q4. Discuss the role of NDMA in disaster management in India.

Section – B

(8 marks each)

- Q5. Write a detailed note on global disaster trends.
- Q6. Discuss the factors impacting reconstruction and redevelopment after disasters.
- Q7. What role do non-governmental and inter-governmental agencies play in disaster management in India?
- Q8. How do early warning systems (EWS) use disaster communication systems to provide timely alerts and information to communities at risk?

Section – C

(10 marks each)

- Q9. Classify disasters and discuss in detail the Geological disasters with examples.
- Q10. What are the key provisions of the Disaster Management Act, 2005, and how does it strengthen disaster response and preparedness in India?
- Q11. How can Geoinformatics be effectively utilized across the disaster management cycle (pre-disaster, during disaster, and post-disaster phases) to enhance disaster risk reduction and management?