

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Winter2019 – 20 Examination

Semester: 5

Subject Code: 03104346

Subject Name: Disaster Management

Date: 12/12/2019

Time: 10:30 am to 1:00 pm

Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 A. Multiple Choice Questions. (Choose the most correct option).**(15)**

1. _____ is a measure of expected losses due to a hazard event occurring in given area.
 - a. Vulnerability
 - b. Capacity
 - c. Intensity
 - d. Risk

2. Combination of all strengths and resources available within community is called _____.
 - a. Hazard
 - b. Vulnerability
 - c. Capacity
 - d. Risk

3. Landslide is a _____ type of disaster.
 - a. Geological
 - b. Hydro-meteorological
 - c. Biological
 - d. Technological

4. Which of the following is NOT a man-made disaster?
 - a. Building Accident
 - b. Rural and Urban Fire
 - c. Radiological Disasters
 - d. Cold Wave.

5. Lightning and Thunderstorms are _____ type of disaster.
 - a. Geological
 - b. Hydro-meteorological
 - c. Biological
 - d. Technological

Q.1 B. Fill in the blanks.

1. The acronym NDMA stands for _____.
2. The acronym NDRF stands for _____.
3. The absence or deficiency of rainfall from its normal pattern is called _____.
4. Point of origin of an earthquake is called as _____.
5. _____ is defined as any change in climate over time that directly and indirectly affects humans and their activities as well as natural systems and processes.

Q.1C. Match the following GROUP A (S&T institutes) with GROUP B (Area of work).

Group A	Group B
1. CWC	Earthquake
2. IMD	Flood
3. GIS	Cyclone
4. INCOIS	Research
5. ISRO	Tsunami

Q.2 Write a note on following. (Attempt any three)**(15)**

- A) Importance of the subject “Disaster Management” as a part of B. Tech.study.

- B) Early Warning System
- C) Hyogo Framework
- D) Disaster Management Act 2005
- E) Risk Mapping

- Q.3** A) Discuss the paradigm shift in the field of disaster management. (07)
B) Describe the Institutional Mechanism with Flowchart. Mention the workings of NDMA, NDRF, NIDM. (08)

OR

- B) Describe the Disaster Profile of India. (08)

- Q.4** A) Write down the applications of science and technology in Disaster Management. Mention RS, GIS, GPS. (07)

OR

- A) Write a note on Disaster Management Cycle with neat flowchart. (07)
B) Write a note any two mega-disasters occurred in India. Mention lessons learnt. (08)