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B.Tech. DEGREE EXAMINATION, NOVEMBER 2018
3rd to 7th Semester

15CE346E – DISASTER MANAGEMENT AND MITIGATION
(For the candidates admitted during the academic year 2015-2016 to 2017-2018)

Note:

- (i) **Part - A** should be answered in OMR sheet within first 45 minutes and OMR sheet should be handed over to hall invigilator at the end of 45th minute.
- (ii) **Part - B** and **Part - C** should be answered in answer booklet.

Time: Three Hours

Max. Marks: 100

PART – A (20 × 1 = 20 Marks)
Answer ALL Questions

- The chairman of the National Disaster management authority is
(A) Home minister (B) Chief minister
(C) Prime minister (D) Vice president
- National institute of disaster management is at
(A) Punjab (B) Manipur
(C) New Delhi (D) Hyderabad
- The term disaster is derived from which of the following language.
(A) Latin (B) Arabic
(C) Greek (D) French
- The disaster management act was made in the year
(A) 2004 (B) 2005
(C) 2006 (D) 2007
- Earthquakes are caused by slippage within geological _____.
(A) Crust (B) Faults
(C) Mantle (D) Surface
- Landslides often occur in
(A) Desert region (B) Forest region
(C) Tundra region (D) Hilly region
- Avalanches take place in
(A) High altitudes (B) Low latitudes
(C) Ground level (D) Beneath the ocean
- Geothermal energy is generated from
(A) Volcanoes (B) Earthquakes
(C) Floods (D) Landslides
- Where was the first use of Nuclear bomb dropped which caused death to the millions of lives?
(A) Karachi (B) Melbourne and Sydney
(C) Hiroshima and Nagasaki (D) Tokyo

PART – B (5 × 4 = 20 Marks)
Answer ANY FIVE Questions

10. Polluted water causes diseases in human like
(A) Sickness and Diarrhea (B) T.B
(C) Fever (D) Abdominal pain
11. The Bhopal gas tragedy occurred due to leakage of which gas?
(A) Chloroflouro carbon (B) Methane
(C) Methyl isocyanide (D) Carbon monoxide
12. Too many greenhouse gases in the atmosphere may block heat from escaping in to space and trap too much heat next to the surface causing _____.
(A) Earthquake (B) Global warming
(C) Ice age (D) Volcanic eruptions
13. How many phase disaster responses are there?
(A) 6 (B) 5
(C) 4 (D) 3
14. The first step in preparedness planning is
(A) Analysis of data collected (B) Determination of objectives
(C) Development of implementing device (D) Determination of strategy
15. Which among the following is the nodal agency of government of India for monitoring the seismic activity in and around the country?
(A) National disaster management authority (B) Disaster management department
(C) Indian space research organization (D) Indian meteorological department
16. Disaster management cycles is related to
(A) Recovery and mitigation (B) Response, recovery, mitigation, preparedness
(C) Response and recovery (D) Preparedness and response
17. OGC stands for
(A) Open geoscience community (B) Open geospatial consortium
(C) Online geoscience community (D) Oil and gas corporate
18. The agency that provide information about the weather
(A) IMD (B) ISI
(C) ISO (D) CGWB
19. The population growth of India is at the rate of
(A) 2.1% per year (B) 1.23% per year
(C) 10% per year (D) 20% per year
20. The permanent seismological observatory has been installed at which among the following places in India.
(A) Palanpur, Gujarat (B) Latur, Maharashtra
(C) Chamoli, Uttarakhand (D) Pune, Maharashtra

21. Write the disaster management cycle.
22. Give a brief note on flood.
23. Explain forest fire and building fire.
24. Write the preparedness plan for natural disaster cyclone.
25. Explain disaster mitigation.
26. Give a brief note on earthquake.
27. Give a brief note on nuclear disaster.

PART – C (5 × 12 = 60 Marks)
Answer ALL Questions

28. a. Explain in detail about the disaster management cycle.
(OR)
b. Write short notes on
(i) Disaster
(ii) Risk
(iii) Hazard
(iv) Vulnerability
29. a. Discuss in detail about earthquake.
(OR)
b. Discuss in detail about flood.
30. a. Write in detail about
(i) Air pollution
(ii) Water pollution
(OR)
b. Write in detail about
(i) Coal fire
(ii) Oil fire
(iii) Deforestation
31. a. What is the post disaster stage plan for landslide and tsunami?
(OR)
b. Explain in detail about pre disaster stage.
32. a. What is an observatory and how does it help in disaster mitigation?
(OR)
b. Explain in detail about seismological observatory.
