



FOR KUET EXAM PREPARATION

KUET 2023

Question Paper · M.Sc. Disaster Management

EXAM	YEAR	TYPE	SUBJECT
KUET	2023	Question Paper	M.Sc. Disaster Management

Sr. No.

ENTRANCE TEST-2023**SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES****DISASTER MANAGEMENT****Question Booklet Series****A****Total Questions : 60****Time Allowed : 70 Minutes****Roll No. :**

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Instructions for Candidates :

1. Write your Entrance Test Roll Number in the space provided at the top of this page of Question Booklet and fill up the necessary information in the spaces provided on the OMR Answer Sheet.
2. OMR Answer Sheet has an Original Copy and a Candidate's Copy glued beneath it at the top. While making entries in the Original Copy, candidate should ensure that the two copies are aligned properly so that the entries made in the Original Copy against each item are exactly copied in the Candidate's Copy.
3. All entries in the OMR Answer Sheet, including answers to questions, are to be recorded in the Original Copy only.
4. Choose the correct / most appropriate response for each question among the options A, B, C and D and darken the circle of the appropriate response completely. The incomplete darkened circle is not correctly read by the OMR Scanner and no complaint to this effect shall be entertained.
5. Use only blue/black ball point pen to darken the circle of correct/most appropriate response. In no case gel/ink pen or pencil should be used.
6. Do not darken more than one circle of options for any question. A question with more than one darkened response shall be considered wrong.
7. There will be '**Negative Marking**' for wrong answers. Each wrong answer will lead to the deduction of 0.25 marks from the total score of the candidate.
8. Only those candidates who would obtain positive score in Entrance Test Examination shall be eligible for admission.
9. Do not make any stray mark on the OMR sheet.
10. Calculators and mobiles shall not be permitted inside the examination hall.
11. Rough work, if any, should be done on the blank sheets provided with the question booklet.
12. OMR Answer Sheet must be handled carefully and it should not be folded or mutilated in which case it will not be evaluated.
13. Ensure that your OMR Answer Sheet has been signed by the Invigilator and the candidate himself/herself.
14. At the end of the examination, hand over the OMR Answer Sheet to the invigilator who will first tear off the original OMR sheet in presence of the Candidate and hand over the Candidate's Copy to the candidate.

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1. Etymologically the term 'Disaster' comes from the following languages :

- (i) French
- (ii) Greek
- (iii) Italian
- (iv) Latin

Choose the correct answer from the options given below:

- (A) (i), (ii), (iii)
- (B) (i), (ii), (iv)
- (C) (ii), (iii), (iv)
- (D) (i), (ii), (iii), (iv)

2. Etymologically the term 'Hazard' comes from one of the following languages

- (A) French
- (B) Greek
- (C) Italian
- (D) Latin

3. Risk perception is understood as

- (i) Awareness of risk
- (ii) Dependency on certain subjective and objective factors
- (iii) Insignificant role of media
- (iv) Personal experience of disasters
- (v) Non-belief in prevention and fatalistic attitude

Choose the correct answer from the options given below:

- (A) (iii), (iv) Only
- (B) (i), (iii), (v) Only
- (C) (i), (ii), (iii) Only
- (D) (i), (ii), (iv) Only

Joshimath, also known as Jyotirmath, a town and a municipal board recently in news for land subsidence is situated in which of the following districts in the Indian state of Uttarakhand?

- (A) Chamoli
- (B) Nainital
- (C) Rudraprayag
- (D) Uttarkashi

5. Match List I with List II

List I (Disasters)	List II (Year)
1. Fukushima Double Disaster	(i) 2019
2. Chernobyl Disaster	(ii) 2004
3. Asian Tsunami	(iii) 2011
4. Australian Forest Fire	(iv) 1986

Choose the correct answer from the options given below:

- (A) 1 (ii), 2 (iv), 3 (iii), 4 (i)
- (B) 1 (i), 2 (iii), 3 (ii), 4 (iv)
- (C) 1 (iii), 2 (iv), 3 (ii), 4 (i)
- (D) 1 (iv), 2 (iii), 3 (ii), 4 (i)

6. Which is nodal ministry for management of Biological Disasters in India?

- (A) Ministry of Health and Family Welfare
- (B) Ministry of Environment, Forests and Climate Change
- (C) Ministry of Home Affairs
- (D) Ministry of Defence

7. Chernobyl disaster in Ukraine is a kind of

- (i) Natural Disaster
- (ii) Manmade Disaster
- (iii) Nuclear disaster
- (iv) Toxic gas Disaster
- (v) Geothermal Disaster

Choose the correct answer from the options given below:

- (A) (i) & (ii) Only
- (B) (ii) & (iii) Only
- (C) (iii) & (iv) Only
- (D) (iv) & (v) Only

8. Given below are two statements

Statement I: Risk = Hazards × Vulnerability.

Statement II: Risk is precisely defined by ISDR as ‘the probability of harmful consequences, or expected losses resulting from interaction between natural or human- induced hazards and vulnerable conditions’.

In the light of the above statements, choose the *most appropriate* answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

9. Approaches for vulnerability analysis are

- (i) Techno- Centric Analysis
- (ii) Target Group Analysis
- (iii) Situational Analysis
- (iv) Clinical Trial Analysis
- (v) Linguistic Analysis

Choose the correct answer from the options given below:

- (A) (i), (ii) Only
- (B) (i), (ii), (iii) Only
- (C) (iii), (iv) Only
- (D) (iv), (v) Only

10. The major measures including use of new technologies, clean energy resources, and making older technologies more energy efficient to reduce the impact of climate change are examples of :

- (A) Adaptation
- (B) Mitigation
- (C) Resilience
- (D) Resistance

11. Golden Hour in disaster means

- (A) A window of time in which victim is thought to have the greatest chance of survival if given medical attention
- (B) A window of time where victim can be evacuated
- (C) First hour to supply food & water
- (D) First hour to send relief materials

12. Given below are two statements:
Statement I: Community is a natural ordered entity typified by the family, implies cultural understanding of living communities
Statement II: Society is unstructured and lacking institutionalized organizations
In the light of the above statements, choose the *most appropriate* answer from the options given below
(A) Both Statement I and Statement II are true
(B) Both Statement I and Statement II are false
(C) Statement I is correct but Statement II is false
(D) Statement I is incorrect but Statement II is true
13. During which phase of disaster cycle should surveillance of health problems be conducted?
(A) Preparedness
(B) Response
(C) Recovery
(D) Mitigation
14. Microearthquakes which are usually not felt by people and only recorded by seismographs have a magnitude (Richter scale)
(A) Less than 1.0
(B) Between 1.0 and 2.0
(C) Between 2.0 and 3.0
(D) Between 3.0 and 4.0
15. Which of the following is incorrect about the vulnerability profile of India?
(A) About 12% (over 40 million hectares) of its land is prone to floods and river erosion
(B) About 68% of its cultivable area is vulnerable to droughts
(C) Around 59% of the landmass is prone to earthquakes of moderate to very high intensity
(D) Close to 7,516 km long coastline is prone to cyclones and tsunamis
16. Disaster management has variety of action items. Which of the following is the overarching goal of disaster management?
(A) Collection of valuable data for future management objectives
(B) Resettling people in the closest unaffected urban area
(C) Restoring community services, facilities and residences to pre-disaster levels
(D) Strengthening sewage and drinking water treatment facilities to resist the impact of a future disaster
17. The United Nations Disaster Assessment and Coordination (UNDAC) is part of the international emergency response system for sudden-onset emergencies. Which of the following is not part of UNDAC?
(A) Equipment
(B) Methodology
(C) Staff
(D) Training
18. Which of the following does NOT belong to the category of nuclear disaster?
(A) Chernobyl disaster
(B) Fukushima disaster
(C) Love canal disaster
(D) Three-mile Island accident

19. As per 'Yokohama Strategy and Plan of Action for a Safer World', what elements contribute to and gain from implementation of Sustainable Development Policies?
- Disaster Prevention, Mitigation, Preparedness & Relief
 - Disaster Risk Reduction, Resilience, Mitigation and Prevention
 - Funding, Prevention, Resilience of Nation
 - Prevention and Mitigation
20. Arrange the following events contributing to Disaster Risk Reduction, in order of the Latest to the Oldest:
- International Conference on DRR, Sendai
 - International Decade for Natural Disaster Reduction
 - International Strategy for Disaster Reduction
 - World Conference on Disaster Reduction, Hyogo
 - World Conference on Natural Disaster Reduction, Yokohama
- (i), (iii), (iv), (v), (ii)
 - (i), (v), (iv), (iii), (ii)
 - (ii), (iii), (iv), (v), (i)
 - (ii), (v), (iv), (iii), (i)
21. Which International Instrument adopted the concept of 'Build Back Better'?
- Yokohama Strategy & Plan of Action for a Safer World, 1994
 - Sendai Framework for Disaster Risk Reduction, 2015-2030
 - Hyogo Framework for Action, 2005-2015
 - Rio Declaration, 1992
22. One of the global targets as per Sendai Framework, 2015 is
- To substantially reduce global disaster mortality by 2030, aiming to lower the average per 100,000 global mortality rate in the decade 2020-2030 compared to the period 2000-2010.
 - To lower global disaster mortality average per 100,000 in decade 2020-2030 as compared to 2010-2020
 - To substantially reduce global disaster mortality by 2025, aiming to lower the average per 100,000 global mortality rate in the decade 2015-2025 compared to the period 2005-2015.
 - To substantially reduce global disaster mortality by 2030, aiming to lower the average per 100,000 global mortality rate in the decade 2020-2030 compared to the period 2005-2015.
23. The National Disaster Management Authority (NDMA), the apex body for Disaster Management in India, is headed by the
- Chief Justice of India
 - President of India
 - Prime Minister of India
 - Union Home Minister of India

24. The essential elements of disaster as per Section 2(d) of Disaster Management Act, 2005?
- Catastrophe, mishap, calamity or grave occurrence affecting any area
 - Arising only from natural causes (i.e. does not cover man-made causes)
 - Arising only from accident or negligence
 - Beyond coping capacity of society
- Choose the correct answer from the options given below:
- (i), (ii)
 - (i), (ii), (iii)
 - (i), (iii), (iv)
 - (i), (iv)
25. National Disaster Management Act, 2005 proposes National Plan for disaster management for the whole of the country. As per the Act, the National Plan shall be reviewed and updated
- Annually
 - Biennially
 - Every Five years
 - Every Ten years
26. As per Section 2(e) of National Disaster Management Act, 2005 essential elements for disaster management are
- Prevention of danger or threat of any disaster
 - Declaration of standard of disaster risk free infrastructure
 - Building back better
 - Rehabilitation and reconstruction
- Choose the correct answer from the options given below:
- (i), (ii)
 - (ii), (iii)
 - (i), (iv)
 - (iii), (iv)
27. In the Tribal Area, as referred to in the Sixth Schedule to the Constitution, the Co- Chairperson of the District Disaster Management Authority will be
- Chief Executive Member of the district
 - Chief Medical Officer of the district
 - Elected representative of the local authority
 - Superintendent of Police
28. The fellow citizens of country have given the following name to the rescuers of National Disaster Response Force (NDRF)
- Aapda Mitra
 - Angels in Disaster
 - Disaster Warriors
 - Garud Commandos
29. The National Disaster Response Force (NDRF) was constituted under the statutory provision of Disaster Management Act, 2005. In 2005, the NDRF was constituted with 8 Battalions, however, today the number of Battalions are increased to
- 15
 - 18
 - 21
 - 25
30. Who among the following is known for contributions in Indian Nuclear Sciences?
- Chandrasekhara Venkata Raman
 - Homi Jehangir Bhabha
 - Meghnad Saha
 - Subrahmanyam Chandrasekhar

31. Which of the following is the world's most powerful space observatory that has turned its gaze on planets, stars and galaxies in infrared light, which is invisible to the human eye?
 - (A) Compton Gamma Ray Observatory
 - (B) Hubble Space Telescope
 - (C) James Webb Space Telescope
 - (D) Spitzer Space Telescope
32. Covaxin produced by the Indian Company Bharat Biotech in collaboration with the Indian Council of Medical Research-National Institute of Virology is a/an
 - (A) inactivated virus
 - (B) mRNA vaccine
 - (C) self-amplifying mRNA vaccine
 - (D) viral vector vaccine
33. Who received the Nobel Prize in Physiology or Medicine 2022 for discoveries concerning the genomes of extinct hominins and human evolution ?
 - (A) David Julius
 - (B) Svante Pääbo
 - (C) K. Barry Sharpless
 - (D) Anton Zeilinger
34. The term drip-stone is most proximately associated with
 - (A) Glacier
 - (B) Precipitation
 - (C) Running water
 - (D) Underground water
35. The scale designed to describe the effects of an earthquake at a given place, on natural features, on industrial installations and on human beings :
 - (A) Hadean scale
 - (B) Modified Mercalli scale
 - (C) Moment Magnitude scale
 - (D) Richter scale
36. An Artificial Intelligence (AI) technique that allows computers to understand associations and relationships between objects and events is called
 - (A) Cognitive Science
 - (B) Heuristic Processing
 - (C) Pattern Matching
 - (D) Relative Symbolism
37. An attribute of one table matching the primary key of another table is called
 - (A) Candidate Key
 - (B) Composite Key
 - (C) Foreign Key
 - (D) Secondary Key
38. As per Wildlife Institute of India and work of Rodgers and Panwar (1988), how many biogeographic zones are explained in India?
 - (A) 10
 - (B) 12
 - (C) 16
 - (D) 18

39. Which of the following disaster databases is with regional coverage (and not global coverage)?
- Dartmouth
 - DesInventar
 - EM-DAT
 - NatCatSERVICE
40. Which of the following continents/regions has the maximum percent share of global river runoff?
- Africa
 - Asia
 - North and Central America
 - South America
41. As per the India Seismic Zone Map of India, which of the following combinations is NOT explained?
- Zone I, Zone II, Zone III
 - Zone II, Zone III, Zone IV
 - Zone II, Zone IV, Zone V
 - Zone III, Zone IV, Zone V
42. Match List I with List II
- | List I (Reservoir) | List II (River) |
|--------------------|-----------------|
| 1. Bhakra | (i) Beas |
| 2. Gandhi Sagar | (ii) Ramganga |
| 3. Kalagarh | (iii) Sutluj |
| 4. Pong | (iv) Chambel |
43. The Forest Survey of India has been monitoring India's forest and tree resource through periodic assessment and presenting the findings in its biennial publication. The first State of Forest report was brought out in the year
- 1982
 - 1986
 - 1987
 - 1991
44. As per India State of Forest Report (2021), which of the following states has the highest percentage of forest cover w.r.t. total geographical area of the state?
- Maharashtra
 - Manipur
 - Meghalaya
 - Mizoram
45. According to the World Air Quality Report 2021, India is home to following number of the 100 most polluted cities, with New Delhi named as the capital with the worst air quality in the world :
- 39
 - 51
 - 63
 - 75
46. A document, Desertification and Land Degradation Atlas reporting increase in land degradation and desertification was published by
- Defence Research & Development Organisation (DRDO)
 - Indian Agricultural Research Institute
 - Indian Council of Forestry Research and Education
 - Indian Space Research Organisation (ISRO)

Choose the correct answer from the options given below:

- 1 (i), 2 (iv), 3 (ii), 4 (iii)
- 1 (iii), 2 (iv), 3 (ii), 4 (i)
- 1 (iv), 2 (iii), 3 (i), 4 (ii)
- 1 (iii), 2 (ii), 3 (iv), 4 (i)

47. The Kashmir Valley lies between the following thrusts, making it very vulnerable to earthquakes :
- Karakoram thrust and Ladakh thrust
 - Ladakh thrust and Pir Panjal thrust
 - Pir Panjal thrust and Zaskar thrust
 - Zaskar thrust and Karakoram thrust
48. The possibility of land subsidence incident that happened in Joshimath town was first highlighted around 50 years back by the following published committee report :
- HN Salve
 - Kamal Nath
 - MC Mehta
 - MC Mishra
49. Recently (in the year 2023) the first land subsidence event was reported from which of the following districts of Jammu and Kashmir, resulting in structures being declared unsafe and people being displaced ?
- Anantnag
 - Baramula
 - Doda
 - Ganderbal
50. Most of the country of Turkey is located on which of the following plates?
- Anatolian Plate
 - Cocos Plate
 - Nazca Plate
 - Scotia Plate
51. The book The Wealth of Nations is written by
- Karl Marx
 - Adam Smith
 - Alfred Marshall
 - Anne- Robert Jacques Turgot
52. Who is the author of the book 'Isaac's Storm: a Man, a Time, and the Deadliest Hurricane in History'?
- Erik Larson
 - Jon Krakauer
 - Mike Mullin
 - Sheri Fink
53. Where is Indian National Centre for Ocean Information Services (INCOIS) located?
- Bangalore
 - Chennai
 - Hyderabad
 - Thiruvananthapuram
54. Which of the following is correct name of the principal agency responsible for meteorological observations, weather forecasting and seismology?
- India Meteorological Department
 - India Meteorology Department
 - Indian Meteorological Department
 - Indian Meteorology Department
55. Which of the following is incorrect urban area as per the Census of India?
- A density of population of at least 400 persons per sq.km.
 - A minimum population of 5,000
 - An area where the urbanization rate is over 60%
 - At least 75% of male working population engaged in non-agricultural occupation

56. Which of the following Union Territories has the minimum population density (persons per sq.km) as per Census 2021?
- (A) Andaman and Nicobar Islands
(B) Dadra and Nagar Haveli
(C) Jammu and Kashmir
(D) Ladakh
57. Which of the following United Nations (UN) organization ensures that all countries and international and regional organizations have access to and develop the capacity to use all types of space-based information to support the full disaster management cycle?
- (A) UN-ESCAP
(B) UN-SPIDER
(C) UNIDIR
(D) UNOOSA
58. Who among the following is the Director General, Coalition for Disaster Resilient Infrastructure (CDRI)?
- (A) Amit Prothi
(B) Kamal Kishore
(C) Rajendra Singh
(D) Vinod Kumar Sharma
59. Lunglei Fire Station (LFS), which shared *Subhash Chandra Bose Aapda Prabandhan Puruskar* with Odisha State Disaster Management Authority (OSDMA) for the year 2023 in the field of Disaster Management belongs to the following state :
- (A) Manipur
(B) Mizoram
(C) Nagaland
(D) Tripura
60. Mr. António Manuel de Oliveira Guterres the Secretary-General of the United Nations was earlier Prime Minister of :
- (A) Brazil
(B) France
(C) Portugal
(D) Spain

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