

R6885

Sub. Code

646201

M.B.A. DEGREE EXAMINATION, APRIL – 2022

Second Semester

Disaster Management

RESEARCH METHODOLOGY

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

1. What are the objectives of social research?
2. What are the characteristics of hypothesis?
3. What is sampling error?
4. What is parametric test?
5. What is observation method?
6. Define non-probability sampling.
7. Write two advantages of case study research.
8. Mention types of interview.
9. What is stratified sampling?
10. State the meaning of Applied Research.

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

All questions carry equal marks.

11. (a) Write a note on different methods of measuring dispersion.

Or

- (b) Write a note on review of literature.

12. (a) How is questionnaire classified?

Or

- (b) Distinguish between field survey and documentary sources.

13. (a) Write a note on foot note.

Or

- (b) What are the characteristics of Research as a scientific activity?

14. (a) Differentiate between Quantitative and Qualitative research.

Or

- (b) Make a distinction between independent and dependent variables.

15. (a) What are the advantages of case study?

Or

- (b) State the meaning of fundamental and applied research.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Discuss the various types of hypothesis with suitable illustrations.
 17. Examine the different types of research design.
 18. Explain the precautions one has to undertake while writing research report.
 19. Discuss the advantages and disadvantages of questionnaire method.
 20. Describe the role of a tabulation data.
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R6886

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646202

M.B.A. DEGREE EXAMINATION, APRIL 2022

Second Semester

Disaster Management

ENVIRONMENTAL ECONOMICS AND MANAGEMENT

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

1. Define sustainability.
2. Define degrowth paradigm of sustainability.
3. What is private good?
4. What is emission charge?
5. What is common property rights?
6. What is social-cost benefit analysis?
7. Define pigouvian tax and subsidy approach.
8. Explain Elinor Ostrom's concept of self-governance.
9. Define environmentalism of the poor.
10. Write a brief note on Narmada Bachao Andolan.

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Differentiate between weak and strong sustainability.

Or

- (b) State environmental externalities.

12. (a) Write a note on Non-market instruments of environmental policy.

Or

- (b) Briefly explain mixed instruments of environmental policy.

13. (a) Mention importance of tradeable pollution permits.

Or

- (b) Write a short note on contingent valuation method.

14. (a) State the Hedonic pricing method of environmental valuation.

Or

- (b) Write a note on common property rights of rural poor in India.

15. (a) State chipko movement environmentalism of the poor.

Or

- (b) Write a note on save silent valley movement.

Part C

(3 × 10 = 30)

Answer any **three** questions.

All questions carry equal marks.

16. Explain coase theorem of bargaining solution of property rights.
 17. Discuss market based instruments of environmental policy.
 18. Discuss the salient features of cost benefit analysis.
 19. Enumerate Garrett Hardin's "Tragedy of the commons".
 20. Analyse environmental legal activism in Tamil Nadu particularly polar river basins.
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R6887

Sub. Code

646203

M.B.A. DEGREE EXAMINATION, APRIL – 2022.

Second Semester

Disaster Management

PRINCIPLES OF REMOTE SENSING AND GIS

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All question carry equal marks.

Write the definition of the following:

1. Atmospheric windows
2. Cartography
3. Geo eye
4. Cartosat
5. True Colour Composite
6. Stereoscope
7. DGPS
8. Attribute data
9. Triangulation Irregular Network (TIN)
10. Buffer analysis

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Explain the EMR wavelength regions.

Or

- (b) Give a note on the advantages of active remote sensing.

12. (a) Examine the spatial resolutions of LISS I, LISS III and LISS IV.

Or

- (b) Discuss the applications of NOAA satellites.

13. (a) Examine the advantages of False Colour Composite (FCC).

Or

- (b) Give a note on Tone, Texture, Pattern and Location.

14. (a) Explain the importance of projection and transformation in GIS.

Or

- (b) Examine the spatial characteristics of point, line and polygon.

15. (a) Give a note on geo-database.

Or

- (b) Bring out the advantages of network analysis.

Part C

(3 × 10 = 30)

Answer any **three** questions.

All questions carry equal marks.

16. Give a detailed account on EMR interaction with atmosphere.
17. Explain spatial, spectral, radiometric and temporal resolutions of IKONOS.
18. Elucidate the process of geometric correction of satellite images.
19. Write an essay on the applications of GPS.
20. Discuss the various steps involved in rectification and digitization of a map in GIS.

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646502

M.B.A. DEGREE EXAMINATION, APRIL 2022

Second Semester

Disaster Management

Elective – STATISTICAL METHODS

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define simple random sampling.
2. What is the difference between correlation and Regression?
3. What are the procedures of testing hypothesis?
4. List out parametric test.
5. Mention the properties of good averages.
6. Note two limitations of probability sampling.
7. Define cluster sampling.
8. What are the merits of pearson's coefficient?
9. Define mode and mean.
10. What is Quota Sampling?

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

All questions carry equal marks.

11. (a) Mention methods of reducing sampling.

Or

- (b) Calculate median from the following data:

Marks :	0-10	10-30	30-60	60-80	80-90
No.of.	5	15	30	8	2
Students :					

12. (a) Mention the merits and demerits of diagrammatic presentation of data.

Or

- (b) Briefly explain Fisher's index is an Ideal Index.

13. (a) State the properties of good averages.

Or

- (b) Mention the properties of Regression co-efficient.

14. (a) Write a note on various types of matrix.

Or

- (b) What are the independent and dependent variables?

15. (a) Write a short note on standard deviation.

Or

- (b) State Parametric statistics.

Part C

(3 × 10 = 30)

Answer any **three** questions.

All questions carry equal marks.

16. Analyse the different methods of collecting primary data.
17. Describe the merits and demerits of census method of collecting data.
18. Explain addition and multiplication theorems of probability.
19. Calculating Spearman's co-efficient of correlation.

X	60	65	70	75	80	85	90	95	100
Y	10	5	0	0	-2	-4	-5	-5	-7

Find correlation of the variables X and Y.

20. Fit a straight line trend by the method of least squares to the following data.

Year	1996	1997	1998	1999	2000	2001	2002	2003
Sales	76	80	130	144	138	120	174	190

R6889

Sub. Code

646401

M.B.A. DEGREE EXAMINATION, APRIL – 2022.

Fourth Semester

Disaster Management

CLIMATE CHANGE AND DISASTER MANAGEMENT

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

1. What do you mean by disaster management?
2. Write the meaning of vulnerability.
3. What do you mean by natural disaster?
4. How climate change effect on agriculture sector?
5. Define global warming.
6. What is remote sensing?
7. Comment on Disaster Management Act.
8. How do humans adapt to the climate?
9. What is Risk?
10. What do you mean by early warning?

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

All question carry equal marks.

11. (a) Write a short note on National Mission for Sustaining Himalayan Ecosystem (NMSHE).

Or

- (b) Discuss the vulnerability assessment in climate change.

12. (a) Write a short note on Livestock adaptation strategies.

Or

- (b) Describe some policy measures for adaptation in agriculture.

13. (a) State the water management options for climate change adaptation.

Or

- (b) Explain the adaptation plans for developing transboundary water resources.

14. (a) Explain some policies for adaptation in coastal zones.

Or

- (b) Explain the various coastal zones adaptation measures relevance to climate change.

15. (a) Discuss the paradigm shift in disaster management in India.

Or

- (b) "Will climate change complicate management of some disaster risks"- Argue.

Part C

(3 × 10 = 30)

Answer any **three** questions.

All questions carry equal marks.

16. Discuss Carbon trading.
 17. Discuss in detail about the adaptation in irrigation schemes.
 18. "A new paradigm shift is required for justifying new water resources investments and projects."- Discuss.
 19. Discuss important international agreements on climate change.
 20. Elucidate the structural and non-structural mitigation for disaster management.
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R6890

Sub. Code

646402

M.B.A. DEGREE EXAMINATION, APRIL – 2022

Fourth Semester

Disaster Management

DISASTER RESPONSE

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

1. What is resource management?
2. Define relief delivery.
3. What is knowledge management?
4. Define supply chain management.
5. List out any two functions of disaster administration.
6. What is NDRF?
7. What is golden time?
8. List out the major search equipment.
9. What is Trauma management?
10. What do you mean by recovery?

Part B

(5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

All questions carry equal marks.

11. (a) Write a note on SPHERE standards.

Or

- (b) Explain the measures of post disaster need assessment.

12. (a) Interpret the logistics functions of supply chain management.

Or

- (b) Explain the features of humanitarian supply chain management.

13. (a) Describe the role of disaster Coordination on Chennai flood 2015.

Or

- (b) What are the role of Emergency Medical Services (EMS) in disaster response?

14. (a) Write a short note on quick disaster response.

Or

- (b) Point out the various search and rescue equipment technique used in Ockhi cyclone.

15. (a) Explain the psychological response.

Or

- (b) Write a short note on stress management.

Part C

(3 × 10 = 30)

Answer any **three** questions.

All questions carry equal marks.

16. Discuss the major problems encountered in Relief Administration.
 17. Examine the five key building blocks of supply chain management.
 18. Describe the function of disaster response and administration in Central, State, District and Local level.
 19. Discuss the significance of disaster prevention and highlight major issues involved in it.
 20. Describe the Rumour and Panic management relief measures during disasters.
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R6891

Sub. Code

646403

M.B.A. DEGREE EXAMINATION, APRIL – 2022.

Fourth Semester

Disaster Management

DISASTER RECOVERY

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

1. Define Disaster.
2. What is Recovery?
3. Which law govern's disaster management in India?
4. 'What is Disaster Mapping?
5. What is CBO?
6. Define Hazard.
7. What do you mean by Disaster Risk?
8. What is NDMA?
9. Define Deforestation
10. What do you know about Cyclone Fani?

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

All questions carry equal marks.

11. (a) How Disaster affects the societal environment in a country?

Or

- (b) Describe the Disaster Management Cycle.

12. (a) What are the competing models in Disaster Recovery?

Or

- (b) Discuss the benefits of Recovery plan.

13. (a) How FBOs working in Risk Assessment?

Or

- (b) What are the elements of Recovery Plan?

14. (a) Distinguish between Centralised and decentralised approaches.

Or

- (b) What are the agencies involved in Disaster management in India?

15. (a) What are the damages caused by Cyclone Gaja in Tamil Nadu?

Or

- (b) What are the recent technological developments in handling of earthquakes?

Part C

(3 × 10 = 30)

Answer any **three** questions.

All questions carry equal marks.

16. Describe the impacts of economy due to disaster.
 17. Explain the phases of Disaster Recovery.
 18. Discuss the role of media in the Disaster Recovery Process.
 19. Explain the Financing of Disaster Recovery projects.
 20. Enumerate the recent COVID - 19 pandemic situations handled by the Government of India.
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