CENTRAL UNIVERSITY OF HARYANA
Term End Examinations March 2023

Programme: PG M.Sc. Geography
Semester: 1st
Course Title: Natural Hazards and Disaster Management
Course Code: SBS GEO 1102 GE 3104

Session: 2022-23
Max. Time: 3 Hours
Max.Marks:70

Instructions:

1. Question no. 1 has seven parts and students are required to answer any four. Each part carries three and half Marks.

2. Question no. 2 to 5 have three parts and students are required to answer any two parts of each question. Each part carries seven marks.

Q 1.   (4X3.5=14)

   a) Avalanche
   b) Resilience
   c) ICT
   d) Rehabilitation
   e) GIS
   f) GNSS
   g) NGOs

Q 2.   (2X7=14)

   a) Discuss the Concept of Hazard and Disaster.
   b) Explain the Earthquake Disaster.
   c) Discuss the Chemical and Biological Disaster.

Q3.   (2X7=14)

   a) Elaborate the Plan, Prediction and Early Warning System.
   b) Discuss the National and International Programmes and Policies for Disaster Management.
   c) Discuss the Role of Multiple Stockholders in Disaster Management.

Q 4.   (2X7=14)

   a) Examine the Reconstruction and Rehabilitation.
   b) Elaborate the Recovery and counter Disaster Planning.
   c) Explain the Damage assessment in field of Disaster.

Q 5.   (2X7=14)

   a) What is National Disaster Management Policy? Explain it`s in detail.

b) Discuss the role of Remote Sensing in Disaster Management.

c) Evaluate the GNSS in field of Disaster Management.

CENTRAL UNIVERSITY OF HARYANA

Term End Examinations March 2023

Programme: M.Sc. Geography   Session: 2022-23

Semester: First   Max. Time: 3 Hours

Course Title: Natural Hazards and Disaster Management   Max.Marks:70

Course Code: SBS GEO 1102 GE 3104

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CENTRAL UNIVERSITY OF HARYANA

Term End Examinations, March-2023

Programme: M.Sc. Geography

Semester : First

Course Title: Statistical Techniques in Geography

Course Code: SBS GEO 1 1 03 C 3104

Session: 2022-23
*Max. Time: **3 Hours***
*Max. Marks: **70***

Note: There are **total five questions** in this question paper and all are **compulsory**. Each Question carries **Fourteen Marks**.

Question no.1 has **seven sub parts** and students need to **answer any four parts.**

Question No1.   **(4x3.5=14)**

a. Secondary data

b. Measures of dispersion.

c. Find out missing frequency with median.

Class	0-10	10-20	20-30	30-40	40-50
Frequency	3	8	20	12	?

d. Mean Centre

e. Gini's Coefficient

f. Skewness

g. Scatter Diagram

Note: Question number **Two to Five** have three sub parts and students need to answer **any two sub part** of each question. Each sub part carries **seven marks.**

Question No.2   **(2x7=14)**

a. Explain the utility of statistics in geographical studies with suitable examples.

b. Elaborate the measurement of scales.

c. Explain the methods of primary data collection.

Question No.3   **(2x7=14)**

a. What is central tendency? Explain its utility in geographical studies.

b. Calculate the arithmetic mean and cross check it with charlier's check-

Value	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency	4	12	40	41	27	13	9	4

c. Calculate the mode .

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	15	20	25	24	12	31	73

Question No.4 (2x7=14)

a. What is Lorenz curve? Explain the method to draw the curve and its utility in geography.

b. Calculate the mean deviation and coefficient of mean deviations.

Marks	140-150	150-160	160-170	170-180	180-190	190-200
Frequency	4	6	10	18	9	3

c. Calculate the Standard Deviation by step deviation method and cross check it with charlier check-

Age	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	2	4	4	8	6	3	2

Question No.5 (2x7=14)

a. Calculate the Spearman's rank correlation-

X	48	33	40	9	16	16	65	24	16	57
Y	13	13	24	6	15	4	20	9	6	19

b. Calculate the Karl Pearson's correlation between X and Y series.

X	11	12	13	14	15	16	17	18	19	20
Y	30	29	29	25	24	24	24	21	18	15

c. Calculate the regression equation and coefficient of correlation-

Height of X	65	66	67	67	68	69	70	72
Height of Y	67	68	65	68	72	72	69	71

CENTRAL UNIVERSITY OF HARYANA

<u>Term End Examinations March 2023</u>

Programme: M.Sc. Geography
Semester: First
Course Title: Introduction to Climatology
Course Code: SBS GEO1102 C 3104

Session: 2022-23
Max. Time: 3 Hours
Max. Marks: 70

Instructions:

1. Question no. 1 has seven parts and students are required to answer any four. Each part carries three and half Marks.

2. Question no. 2 to 5 have three parts and students are required to answer any two parts of each question. Each part carries seven marks.

Q 1.   (4X3.5=14)
   a) Radiation
   b) Solar constant
   c) Walker circulation
   d) El-Nino
   e) Global warming
   f) GLOF
   g) Agenda-21

Q 2.   (2X7=14)
   a) Discuss the meaning and scope of climatology.
   b) Explain the solar radiation laws.
   c) Discuss the stability and instability of atmosphere.

Q3.   (2X7=14)
   a) Elaborate the meridional circulation and jet stream.
   b) Discuss the ENSO phenomena in the context of India monsoon.
   c) Discuss the tropical and temperate Anticyclones.

Q 4.   (2X7=14)
   a) Critically examine the Koppen's world climatic classification.
   b) Elaborate the heat budget of Earth.
   c) Explain the weather forecasting and modification.

Q 5.   (2X7=14)
   a) What is climatic change? Explain it in detail.
   b) Discuss the atmospheric hazards and disasters.
   c) Evaluate the impact of global warming on developed and developing country's economy.

CENTRAL UNIVERSITY OF HARYANA

Term End Examinations, March-2023

Programme : M.Sc. Geography

Semester : First

Course Title: Introduction to Geomorphology

Course Code: SBS GEO 1 1 01 C 3104

Session: 2022-23
Max. Time: 3 Hours
Max. Marks: 70

Note: There are **total five questions** in this question paper and all are **compulsory**. Each Question carries **Fourteen Marks**. Maps /diagrams are required in answers.

Question no.1 has **seven sub parts** and students need to **answer any four parts.**

Question No1. (4x3.5=14)

a. Morphogenetic region

b. Avalanch

c. Weathering

d. Continental drift theory

e. Depositional landforms of glacier

f. Karst topography

g. landslide

Note: Question number **Two to Five** have three sub parts and students need to answer **any two sub part** of each question. Each sub part carries **seven marks.**

Question No.2 (2x7=14)

a. 'Complexity of geomorphic evolution is more common than simplicity', explain it with suitable examples.

b. Explain the utility of the concept of time in geomorphology.

c. Critically examine the utility of models in geomorphology.

Question No.3 (2x7=14)

a. Explain the Davisian model of erosion and its utility in current period of time.

b. What is plate tectonic? Explain the sea floor spreading.

   (iii) Destructive boundary and formation of land forms on earth.

c. Elaborate the formation of mountain according to recent acceptable theory.

Question No.4 (2x7=14)

a. Critically examine the reasons and characteristics of different types of land forms which are result of river erosion.

b. Critically examine the theory of slope evolution of A. Wood.

c. Critically examine the reasons and characteristics of different types of land forms which are the result of wind.

Question No.5 (2x7=14)

a. Critically examine the characteristics of any geomorphic region of India.

b. Explain the use of geomorphology for human welfare.

c. Explain the causes and mitigation of earthquake and volcano.

CENTRAL UNIVERSITY OF HARYANA

Term End Examinations, March-2023

Programme : M.Sc. Geography

Semester   : First

Course Title: Introduction to Geomorphology

Course Code: SBS GEO 1 1 01 C 3104

Session: 2022-23
Max. Time: **3 Hours**
Max. Marks: **70**

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CENTRAL UNIVERSITY OF HARYANA

First Semester Term End Examinations March 2023

Programme: M.Sc. Geography   Session: 2022-23

Semester: First   Max. Time: 3 Hours

Course Title: Urban Geography   Max. Marks: 70

Course Code: SBS GEO 1 1 04 C 3104

Instructions:

1. Question no. 1 has seven parts and students are required to answer any four. Each part carries three and half Marks.

2. Question no. 2 to 5 have three parts and student are required to answer any two parts of each question. Each part carries seven marks.

Q 1.   (4X3.5=14)

    a) Concepts of megacities.

    b) Concept of satellite towns.

    c) What is edge cities?

    d) Concept of central place.

    e) Define primate city.

    f) Define urban land use.

    g) Concept of urban planning.

Q 2.   (2X7=14)

    a) Define urban geography? Discuss nature and scope of urban geography.

    b) Discuss the classification of Urban Places in India as per census of India.

    c) What is rural-urban fringe? Explain the various characteristics of rural-urban fringe.

Q3.   (2X7=14)

    a) Discuss the various characteristics, processes and problems of urbanization in developing countries.

    b) Explain urbanisation process in India. Discuss its colonial legacy and post-independence characteristics.

    c) Explain the origin and growth of metropolitan cities in India.

Q 4.   (2X7=14)

    a) Critically examine the assumptions and principles of central place theory of Christaller.

    b) Compare the various urban land use models with suitable diagrams.

    c) Discuss the concept and theory of rank size rule.

Q 5.   (2X7=14)

    a) What do you mean by smart cities? Explain the various characteristics of smart cities with special reference to India.

    b) What is AMRUT? Explain the thrust areas and mission of AMRUT.

    c) What is JNNURM? Discuss the mission, objectives and scope areas of JNNURM.