

2023

AGS 3rd Semester Examination

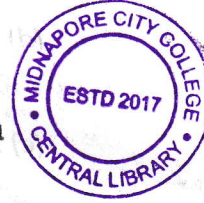
B.Sc. Hons. in Agriculture

Environmental Studies and Disaster Management

PAPER — AGS-307

Full Marks : 50

Time : 2 hours



The figures in the right-hand margin indicate marks.

Candidates are required to give their answers
in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer from **all** the Groups as directed.

GROUP—A

1. Answer **any five** questions from the following :

2×5=10

(a) Differentiate agroforestry and social forestry.

(b) What is standing crop?

(2)

- Define endemism.
- Differentiate sustainability and sustainable development.
- What is green bench?
- Mention the principle of carbon trading.
- Write the impact of sea level rise on coastal agriculture.
- Mention the role NGOs in disaster management.

GROUP—B

2. Answer *any four* questions from the following :
5×4=20

- Examine the ecological and economic significance of biodiversity.
- Write a short note on 3R's concept in solid waste management.
- How does information technology contribute to real-time environmental monitoring?
- How do principles of rainwater harvesting contribute to sustainable water management?

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(Continued)



(3)

- Enumerate the strategies of forest fire management.
- Briefly write the functions of UNESCO and UNICEF.

GROUP—C

3. Answer *any two* questions from the following :
10×2=20

- Explain the structure and function of an ecosystem with special reference to forest. 10
- Define and elaborate on the concept of an ecosystem, highlighting its structure and function. Discuss the importance of biodiversity, categorizing it into genetic, species and ecosystem diversity. Explore the threats to biodiversity and analyze the conservation strategies, including *in-situ* and *ex-situ* approaches. 3+4+3
- Enlist the factors contributing to deforestation and assess the significance of Joint Forest Management (JFM) in addressing this issue. 10

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(Turn Over)

(4)

- (d) Explain the meaning and nature of natural and man-made disasters, categorizing them based on their types and effects. Analyze the role of various entities, including NGOs, community-based organizations, media, armed forces, police and other organizations in disaster response. 4+6

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