

Department of Environmental Science
NabadwipVidyasagar College
Internal Assessment 2021
Semester I

Paper: CC01 EARTH AND EARTH SURFACE PROCESSES (Code: UG-ENVS-H-CC-L -01)

Write any 5 of the following questions. F.M: (2X5=10); Time: 30 min.

- | | |
|---|---|
| a. Define lithification. | 2 |
| b. What are the three rock laws? | 2 |
| c. Short note - Folds | 2 |
| d. What are the factors that influence weathering? | 2 |
| e. Write about the mechanisms of wind erosion. | 2 |
| f. What are the factors that influence water erosion? | 2 |

Department of Environmental Science
NabadwipVidyasagar College
Internal Assessment 2021
Semester I

Paper: CC2 Environmental Chemistry and Environmental Physics (Code: UG-ENVS-H-CC-02)

Write any 5 of the following questions. F.M: (2X5=10); Time: 30 min

- | | |
|---|---|
| a. Differentiate between photochemical smog and sulphur smog? | 2 |
| b. Elaborate – Tropospheric ozone. | 2 |
| c. Describe the role of CFCs in ozone depletion. | 2 |
| d. Describe the components of atmosphere. | 2 |
| e. Short note – Effects of acid rain. | 2 |
| f. Short note – Fate of SO ₂ in atmosphere. | |

NabadwipVidyasagar College
Department of Environmental Science
Internal Examination, 2021

SEMSTER I

COURSE: ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-01)

SUBJECT: ENVIRONMENTAL STUDIES

F.M: 10

1. Describe the causes and impact of air pollution. (5+5)

1. বায়ু দূষণের কারণ ও ফলাফল বর্ণনাকরুন. (5+5)

NabadwipVidyasagar College
Department of Environmental Science
Internal Examination, 2022
Semester II

Paper: CC-03

Answer the following questions. 2X5=10

1. Define Hydrological Cycle.
2. When Water pollution (control and prevention) Act was enacted?
3. When, Where and between whom The Indus Water Treaty was signed?
4. What is the major agenda of Teesta Water Treaty?
5. Write any two objectives of Water pollution (control and prevention) Act.

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Department of Environmental Science
Internal Examination, 2022
Semester II

Paper: CC-04

Answer any two from the following question. each question carries 5 marks, (2x5=10)

Q.1. Write a short note on types of land.

Q.2. Write the impacts of desertification.

Q.3. How can we manage deforestation?

NabadwipVidyasagar College
Department of Environmental Science
Internal Examination, 2022

SEMSTER II

COURSE: ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-02)

SUBJECT: ENVIRONMENTAL STUDIES

F.M: 10

1. Describe the causes and impact of water pollution. (5+5)

1. জল দূষণের কারণ ও ফলাফল বর্ণনাকরুন. (5+5)

NabadwipVidyasagar College
Department of Environmental Science
Internal Examination, 2021
Semester III

Paper: CC-05(Code: UG-ENVS-H-CC-L -06)

1. Define- Population, Species, Community, Natality, Mortality (5)
2. How r & k selection work in population growth (5)
3. What are the characters of a population Describe population growth model (10)

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Department of Environmental Science
Internal Examination, 2021
Semester III

Paper: BIODIVERSITY AND CONSERVATION (Code: UG-ENVS-H-CC-L -06)

Write any 5 of the following questions. F.M: (2X5=10); Time: 30 min

- a. What is the difference between potential value and bequest value of biodiversity? 2
- b. Classify biodiversity values according to their use. 2
- c. Describe indirect use value of biodiversity. 2
- d. Describe aesthetic value of Biodiversity. 2
- e. Elaborate - Biodiversity maintaining hydrological cycle. 2
- f. Discuss two provisioning services of ecosystem. 2

NabadwipVidyasagar College
Department of Environmental Science
Internal Assessment, 2021
SEMSTER III

Paper: CC07

Write any 5 of the following questions.

F.M: (2X5=10); Time: 15 min

1. What is Ozone hole?
2. Write the chemical name of CFC-12.
3. Define ODS.
4. Write a short note on Photochemical smog.
5. Describe the role of CFC in ozone layer depletion.
6. Write the spectral range of ultraviolet radiation.
7. What is lapse rate?
8. Define Temperature inversion.

Department of Environmental Science
NabadwipVidyasagar College
1stInternal Assessment 2021
SEMSTER III

Paper: SEC 1a REMOTE SENSING, GEOGRAPHIC INFORMATION SYSTEM & MODELLING

A. Write any 4 of the following questions. F.M: (5×4 =20); Time: 1hour

1. What is EMR? Describe the principle of remote sensing? 1+4=5
2. What is Sensor? Write short note on Active and passive sensors. 1+4=5
3. Define image interpretation. What are the factors affecting in image interpretation? 1+4=5
4. Write a short note on EMS. How does EMR interact with Earth's Surface? 2+3=5
5. What is aerial photograph? Briefly describe the types of aerial photography with proper diagram. 1+4=5

NOTE: submit the answer copy to the following mail id: mousumi@nvc.ac.in

NabadwipVidyasagar College
Department of Environmental Science
2nd Internal Assessment, 2021
SEMSTER III

Paper: SEC 1a(UG-ENVS-H- SEC-01a)

Answer any 2 of the following questions.

F.M: (2X10=20); Time: 45 min

1. Find the central tendency of: 88,72,33,29,70,54,86,91,57,61.

2. Evaluate the Standard deviation for the following distribution

X	0	1	2	3	4	5	6	7	8
Y	5	22	31	43	51	40	35	15	3

3. The corresponding values of two variables are:

x	2	3	5	8	9
y	4	6	10	16	18

What is the correlation coefficient between x and y?

Department of Environmental Science
Internal Assessment 2022
SEMSTER IV

COURSE: CC08

Write all of the following questions.

F.M: (2X5=10); Time: 15 min

1. What are the importance of biosystematics (5M)

2. What are the importance of herbarium and botanical garden (5M)

**DEPARTMENT OF ENVIRONMENTAL SCIENCE
NABADWIP VIDYASAGAR COLLEGE
INTERNAL ASSESSMENT 2022
SEMESTER IV**

PAPER: CORE COURSE 09 (Code: UG-ENVS-H-CC-09)

TIME: 30 MINUTES

Answer any 5 questions from the following. Each question carries 2 marks.(5×2=10)

1. Write a short note on classification of Coal.
2. What is liquefied petroleum gas?
3. What is liquefied natural gas?
4. Write a short note on coal gasification.
5. Write any two environmental impacts of non-renewable energy consumption.
6. Define oil shale.
7. Define tar sands.

Send the scan pdf file of answer copy to the following mail id: suchismitaenvs@nvc.ac.in

**Department of Environmental Science
NabadwipVidyasagar College
Internal Assessment 2022
SEMESTER IV**

Paper: ENVIRONMENTAL POLLUTION AND HUMAN HEALTH (Code: UG-ENVS-H-CC-10)

Answer any three 4 marks and four 2 marks questions. F.M: (4×3) + (2×4) =20; Time: 1 hr.

- | | |
|--|---|
| a. Differentiate between primary and secondary air pollutant with proper example. | 2 |
| b. Describe detrimental health effects of two gaseous pollutants. | 2 |
| c. Write about few health effects caused by indoor air pollution. | 2 |
| d. Differentiate between BOD and COD. | 2 |
| e. Short note – Eutrophication. | 4 |
| f. Short note – Oxidation Pond. | 4 |
| g. Write about various health effects due to fluoride, cadmium & mercury pollution of water. | 4 |
| h. Describe the secondary stage of ETP. | 4 |
| i. Name two water borne disease with their causative agent? | 2 |

INTERNAL ASSESSMENT, 2022
SEMESTER IV
DEPARTMENT OF ENVIRONMENTAL SCIENCE
NABADWIP VIDYASAGAR COLLEGE

PAPER: SKILL ENHANCEMENT COURSE 02 (Code: UG-ENVS-H-SEC-02a)
ENVIRONMENTAL IMPACT AND RISK ASSESSMENT

FULL MARKS: 10

TIME: 30 MINUTES (01:00 P.M – 01:30 P.M)

A. Answer any 5 questions from the following. Each question carries 2 marks. (5×2=10)

1. Write the definition of Environmental impact assessment.
2. Describe the scopes of Environmental impact assessment.
3. What is baseline data collection in an EIA?
4. Define EMP.
5. Distinguish between Rapid EIA and Comprehensive EIA.
6. Describe Checklist method of impact evaluation.
7. Define BEES.
8. Write the concept of public hearing in an EIA methodology.

Send the pdf file of answer copy to the following mail id suchismitaenvs@nvc.ac.in

Department of Environmental Science
Nabadwip Vidyasagar College
Internal Assessment 2021
SEMESTER V

Paper: ENVIRONMENTAL BIOTECHNOLOGY (Code: UG-ENVS-H-CC-11)

Write any 5 of the following questions. F.M: (2X5=10); Time: 30 min

- a. Define bioremediation.
- b. Write a short note on biosparging.
- c. What are the major types of bioremediation?
- d. What is Rhizofiltration?
- e. Differentiate between In situ and Ex situ bioremediation.
- f. Write the factors influencing bioremediation.
- g. Explain the role of micro-organisms in aerobic biological conversion.
- h. What is mycoremediation?

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Nabadwip Vidyasagar College
Internal Assessment 2021
SEMESTER V
Paper – DSE 1

F.M: (2X5=10); Time: 30 min

1. Itai – Itai disease caused by which heavy metal?
 - a. Lead
 - b. Cadmium
 - c. Chromium
 - d. Mercury
2. Which form of Mercury is absorbed and accumulates to a greater extent than other forms?
 - a. Mercury Benzoate
 - b. methylmercury
 - c. Mercury Chloride
 - d. ethylmercury
3. Blackfoot disease caused by which heavy metal?
 - a. Lead
 - b. Arsenic
 - c. Cadmium
 - d. Selenium
4. Minamata disease is caused by?
 - a. mercury
 - b. selenium
 - c. arsenic
 - d. lead
5.is cytotoxic and able to induce DNA damaging effects.
 - a. Chromium (VI)
 - b. Chromium (III)

Department of Environmental Science
NabadwipVidyasagar College
Internal Assessment 2021
Semester V

Paper: DSE 02 WASTE AND WASTEWATER MANAGEMENT

A. Write any 2 of the following questions.

F.M : (10×2 =20) ; Time: 1hour

1. What is sewage and sewage treatment? What are the 4 steps of wastewater treatment?
2. Write short notes on oxidation pond and anaerobic digestion
3. Describe common methods of primary wastewater treatment

NOTE: submit the answer copy to the following mail id: mousumi@nvc.ac.in

NabadwipVidyasagar College
Department of Environmental Science
Email: departmentofenvs.nvc@gmail.com
Internal Examination, 2021
Semester V
Paper:CC12

F.M. 20

1. Describe the fundamental postulates of Lamarck's theory of evolution (5)
2. Describe the Oparin-Haldane hypothesis (10)
3. Give an outline of major evolutionary events considering Geological Time Scale (10)

Department of Environmental Science

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Internal Assessment, 2022

Semester VI

Paper: ENVIRONMENTAL LEGISLATION AND POLICY (Code: UG-ENVS-H-CC-13)

Answer any two. F.M: 2x5 =10; Time: 30 min.

- | | |
|--|---|
| a. Write a short note on Indian Penal Code 1860 | 5 |
| b. Write about Van Mahotsava 1950. | 5 |
| c. Describe - Article 48A & 51A(g) major pillars of environmental protection. | 5 |
| d. Legal definitions (environmental pollution, natural resource, biodiversity, forest, sustainable development). | 5 |

Department of Environmental Science

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Internal Assessment 2022

Semester VI

PAPER - UG-ENVS-H-CC-14

1. Sustainable building means that

Green building

Environmental building

Both A and B

2. Which of the following is not the purpose of a green building

To minimize damage of the environment

Re-use of waste materials

None of the above

3. Which of the following green rating systems are currently working in India?

LEED

GRIHA

Both A and B

4. LEED means____

Leadership in Energy and Environmental Design

Leadership in Energy and Efficiency Document

Leadership in Energy and Efficiency Design

5. LEED gives rating in form

1 star, 2 star, 3 star, 4 star, 5 star

Platinum, Gold, Silver

None of above

6. GRIHA means that

Green Rating for Indian Habital Assessment

Green Rating for Integrated Habital Assessment

Green Rating for International Habital Assessment

7. When GRIHA was launched in india

2008

2006

2010

8. When LEED was launched in india

1997

1998

2001

9. How many set of criteria formulated by GRIHA for rating the building?

34

33

31

10. Sustainable planning considers environmental, social, and_____ impacts of a building

technological

economical

Both A and B

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Internal Assessment 2022

Semester VI

PAPER - UG-ENVS-H-DSE-3

F.M. 2X5=10

Write any 5 from the following

1. Describe Beer-Lambert law
2. Define gel electrophoresis.
3. Define half life of an radioactive isotope
4. Define turbidimetry
5. Write a short note on ICPMS
6. Define GM Counter