

UNIVERSITY OF CALCUTTA

ENVIRONMENTAL STUDIES
PROJECT
ON

WATER CONSERVATION
AND MANAGEMENT

**B. Com Part-III (Hons./Gen.)
Exam - 2020**

BY

NAME

COLLEGE ROLL NO.

SECTION

REGD. NO.

OF

UMESCHANDRA COLLEGE
[Address of the College]

UNIVERSITY OF CALCUTTA

**ENVIRONMENTAL STUDIES
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NAME :

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UMESCHANDRA COLLEGE

**13, Surya Sen Street,
Kolkata - 700 012**

OR

Address of Extended Campus, Salt Lake

BASIC INFORMATIONS

ABOUT ENVS PAPER

- IT IS A 100 MARKS PAPER FOR 3RD YEAR STUDENTS
- IT IS DIVIDED INTO 2 PARTS
 - 1) WRITTEN - 75 MARKS 50
 - 2) PROJECT - 25 MARKS 30
- IT IS COMPULSORY BOTH FOR HONS. AND GEN.
- IT IS A COMPULSORY TO SIT FOR THE EXAM. AND TO SUBMIT THE PROJECT IN TIME.
- ABSENT OR FAIL MEANS NEXT YEAR.
- NO SUPPLEMENTARY EXAMINATION.

PROJECT REPORT

- SAME TOPIC FOR BOTH HONS. & GEN. (FOR BOTH CAMPUSES)
- PAGE LIMIT - 30 TO 35 PAGES.
- MUST BE TYPED ON A4 SIZE PAPER AND ON ONESIDE (RIGHT HAND SIDE)
- POINTS ARE GIVEN IN EACH CHAPTER - JUST EXPAND THE POINTS.
- PICTURES, DATA, DIAGRAMS - LEFT HAND SIDE. WITH LABELLINGS AND HEADINGS.
- MUST BE IN SPIRAL BINDING.
- SUBMIT HARD COPY RETAINING SOFT COPY BY THE STUDENT.
- SUBMIT WITHIN FIXED DATE (TO BE NOTIFIED LATER)
- CANDIDATES SIGNATURE AN DATE OF SUBMISSION ARE COMPULSORY.
- STUDENT HIMSELF / HERSELF WILL HAVE TO SUBMIT.
- ALL THE WRITE-UP MUST BE IN BOUNDARY.

1

INTRODUCTION

- Importance of water (at least 2/3 definitions) (1.1)
- What is water Conservation? Why is it so necessary? How can the resource be managed in an efficient manner? (1.2)
- Water crisis and its impact on a fast growing metropolitan city (eg. Kolkata)
- Present status of water availability in Kolkata and the near future.

(Total 2-3 pages)

2

IMPORTANCE OF WATER CONSERVATION AND MANAGEMENT

- 2.1 To combat deepening water crisis in the present times.
- 2.2 It helps to preserve our environment.
- 2.3 Proper conservation and management techniques can help in saving energy.
- 2.4 To protect different communities of the world against the perils of water scarcity.
- 2.5 Water is slowly becoming an economic commodity. Its proper management is of utmost importance now.
- 2.6 Water is a central component in the long-term well functioning of society with nature.

(TOTAL → 5-6 pages)

pic

3

STRATEGIES ADOPTED FOR WATER CONSERVATION

3.1 Decreasing run-off losses

3.2 Terrace farming

3.3 Rainwater Harvesting

3.4 Contour Cltivation Cultivation

3.5 Reducing evaporation loss

3.6 Reuse of water

3.7 Watershed management

3.8 Rational use of Ground water

(Total 5 - 6 Pages)

4

TRADITIONAL WATER CONSERVATION SYSTEMS

4.1 Discuss about how Modern India can learn from traditional water conservation systems.

eg.

Jhalaras in Rajasthan

Tanks in Bikaner Rajasthan *Tankas*

Zings in Ladakh

Ahar pynes in South Bihar

Kunds in West Rajasthan, Gujarat

Baoli in Delhi

Zabo in Nagaland

Yeri in Tamil Nadu

Bamboo drip irrigation in Meghalaya

Durgel Jampoils in West Bengal

etc.

(Total 4-5 Pages)

5

WATER CONSERVATION SYSTEM AND MANAGEMENT IN KOLKATA

- 5.1 What are the current systems operating in relation to water conservation and management in Kolkata ?
- 5.2 Discuss about the growing need to improve water resource management as well as management of certain subsystems in relation to water supply.
- 5.3 How can awareness about water conservation be spread among the general public ?

(Total 3-4 Pages)

6

LEGISLATIVE MEASURES RELATED TO WATER AND MANAGEMENT

- 6.1 Water prevention and control of Pollution Act, 1974.
- 6.2 The Water prevention and control of Pollution Cess Act, 2003.
- 6.3 The River Boards Act, 1956.
- 6.4 National water Policy - Ministry of Water Resources (2002)

(Total 2 Pages)

7

GROUND WATER AND SURFACE WATER QUALITY ASSESSMENT

(Total 2 Pages)

8

CONCLUSION

(Total 1-2 Pages)

9

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Prof. Md. Fahad Haque
Non-Teaching Staff
Students' Union
Parents
Friends.

(Total 1 Pages)

10

BIBLIOGRAHY

Mention the sources of Secondary Data / Books / Journals / Periodicals / Internet. Etc.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

(Total 1 Pages)