

CHRIST THE KING ENGINEERING COLLEGE

Affiliated to Anna University, Chennai and Approved by AICTE, New Delhi

Karamadai, Coimbatore - 641104

[Regulation-2021 UG]

Instructions to QP Setters:

1. Use "Century Schoolbook" font with font size: **12 pts.**
2. Must use Bloom's Taxonomy action verbs for QP setting
3. Kindly ensure each "Either or Choice Questions" are in same BT Level.
4. Fill Marks and BT Level against each question without fail.

BTL - Bloom's Taxonomy Levels

(RE - Remembering; UN - Understanding; AP - Applying; AN - Analyzing; EV - Evaluating; CR - Creating)


Table of Specification

Blooms Taxonomy Level (BTL)	Marks in each Divisions			Total Marks for each BTL	% of Distribution
	Part - A	Part - B	Part - C		
Remembering (RE)	4			4	2.2
Understanding (UN)	10	78		88	48.8
Applying (AP)	4		30	34	18.8
Analyzing (AN)	2	39		41	22.7
Evaluating (EV)					-
Creating* (CR)		13		13	7.2
Total	20	130	30	180	100

Revised Bloom's Taxonomy level expected: RE/UN: not more than 40 %; AP/AN/EV/CR: not less than 60%

* Depending upon the course, EV/ CR can be incorporated.




Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.

Register Number: _____

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CONTINUOUS INTERNAL ASSESSMENT – I IV SEMESTER

B.E./ B. Tech. – COMMON FOR ALL BRANCHES
GE 3451 – ENVIRONMENTAL SCIENCES AND SUSTAINABILITY
(REGULATION 2021)

COURSE OUTCOMES

CO1:	To learn about biodiversity, components of an ecosystem and man-wildlife conflicts due to deforestation and need to conserve forest.
CO2:	To learn about the origin, causes and effects of air, noise, water and noise pollution and environmental acts postulated to control them.
CO3:	To learn the need of new energy resources with less carbon emission.

Time: 3 Hours

Maximum Marks: 100

PART A (10 x 2 = 20 Marks)

Answer All The Questions

- | | | |
|---|-----|----|
| 1. How are biotic component grouped? | CO1 | AN |
| 2. Differentiate insitu conservation and exsitu conservation with examples. | CO1 | AP |
| 3. Illustrate the important components of an ecosystem. | CO1 | AP |
| 4. Interpret the concept of ecosystem. | CO1 | UN |
| 5. Indicate the effects of air pollution on plants. | CO2 | UN |
| 6. Infer pollution | CO2 | UN |
| 7. Define decibel. | CO2 | RE |
| 8. Examine the objectives of wastewater treatment. | CO2 | UN |
| 9. Compare BOD and COD. | CO3 | UN |
| 10. State solar energy. | CO3 | RE |

PART B (5 x 13 = 65 Marks)

Answer Any FIVE Questions

- | | | | |
|--|------|-----|----|
| 11. a) Explain the scope and significance of environment | (13) | CO1 | UN |
|--|------|-----|----|



[Signature]
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(OR)

- b) Analyze the energy flow in the ecosystem (13) CO1 AN
12. a) Describe the hotspots in the biodiversity. (13) CO1 UN

(OR)

- b) Differentiate noise pollution and air pollution. Classify its prevention methods. (13) CO1 UN
13. a) Infer the source and effects of air pollutant and explain its control measures (13) CO1 AN

(OR)

- b) How do you analyse the environment and what are its essential components. (13) CO2 AN
14. a) Compare between hazardous waste management and e-waste management. (13) CO2 UN

(OR)

- b) Summarize sewage treatment with a flowchart (13) CO2 UN
15. a) Discuss the case studies on occupational health and safety management system. (13) CO2 UN

(OR)

- b) Construct a system abiding environmental protection acts 1986 (13) CO2 CR

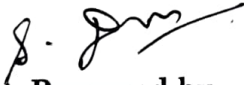
PART C (1x15 = 15 marks)

Answer Any TWO Questions

16. a) Illustrate the applications of new energy sources, need for it (15) CO3 AP

(OR)

- b) Illustrate the types of biodiversity and ecosystem diversity (15) CO3 AP


Prepared by
Dr. S. Dinesh Kirupha
AP/ S&H(Chemistry)


Verified by
HoD/ S&H


Approved by
Principal




Dr. M. JEYAKUMAR, M.E., Ph.D.
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