

E-1135

B. E. IIIrd Semester (Main & Re) Examination, December – 2019

ENVIRONMENTAL & ECOLOGY

Branch : (CE, ME)

Code : BMC-301

Time : Three Hours]

[Maximum Marks : 60

Note : Attempt *all* questions from *Section – A* four questions from *Section – B* and three questions from *Section – C*.

Section- A : Filling the blanks/MCQ/True, false.

1 × 10 = 10

Section- B : Short answer type questions.

5 × 4 = 20

Section- C : Long/ descriptive answer type questions.

10 × 3 = 30

SECTION – A

1. Excess of soluble salts in soil leads to :

(i) Alkalinity

(ii) Sodidity

(iii) Salinity

(iv) Water logging

2. Blue baby Syndrome disease caused by

3. Which of the following gas has maximum contribution to enhance green house effect.

(i) CH_4

(ii) CFCs

(iii) CO_2

(iv) H_2O

P. T. O.

4. Maximum depletion of Ozone gas occurs on :
- (i) Equator
 - (ii) North pole
 - (iii) South pole
 - (iv) Tropics
5. The organism feeding on dead organism are called :
- (i) Decomposers
 - (ii) Carnivores
 - (iii) Detritivores
 - (iv) Omnivores
6. Which of the following is an abiotic component of the Ecosystem ?
- (i) Bacteria
 - (ii) Humus
 - (iii) Fungi
 - (iv) Plants
7. Which of the following is non- renewable resource ?
- (i) Minerals
 - (ii) Water
 - (iii) Forest
 - (iv) Wild life
8. Bio Chemical Oxygen Demand (BOD) measures.
- (i) Industrial pollutants
 - (ii) Air pollution
 - (iii) Pollution capacity of effluent/ sewage
 - (iv) Dissolved O_2 needed by microbes to decompose organic waste
9. Number of babies born per thousand individual in called.
- (i) Natality
 - (ii) Mortality
 - (iii) Immigration
 - (iv) Emigration

10. Ozone depletion in the stratosphere will cause :

- (i) Increased incidence of skin cancer (ii) Forest Fire
- (iii) Global warming (iv) None of above

SECTION – B

1. What are water borne and water induced diseases ? Explain them by suitable examples.

2. Write short notes on :

- (i) Eutrophication
- (ii) Biomagnification

3. Enumerate various problems associated with depletion of ozone gas in the environment.

4. Write a short notes on :

- (i) Ecological pyramid
- (ii) Ecological succession

5. What are bioindicators ? Give an account of different types of bio indicators.

SECTION – C

1. Write notes on :

- (i) Biogeographical zones of India
- (ii) Threats to Biodiversity.

2. What is Municipal Solid waste (MSW). Explain various methods commonly used for disposal of solid waste.
3. With a neat sketch explain various terms used in Nitrogen cycle.
4. What are major re- settlement and rehabilitation issues related to development activities?