

SAVITRIBAI PHULE PUNE UNIVERSITY

Progressive Education Society's

Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-411016 (Autonomous)

B.Sc. Blended Program

(A degree of Savitribai Phule Pune University equivalent to the degree of University of Melbourne)

End Semester Examination: April/May- 2024

Program: B.Sc. Blended **Program (Specific):** B.Sc. Blended (Chemistry) **Set:** B

Class: S.Y.B.Sc. Blended **Semester:** IV

Course code: EVS 410

Course name: Environmental Science II

Credits: 3 **Time:** 2½ hours **Maximum marks:** 50

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Instructions to the candidate:

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*
- 3) Draw a well labelled diagram wherever necessary.*

Q. 1) Select the appropriate answer. (Solve any 10 out of 12) [1x10=10 10M]

1. The amount of oxygen in earth's atmosphere is?
a) 78 % b) 21 % c) 0.01 % d) 3%
2. which of the following procedure will give you water free from all impurities?
a) Distillation b) Boiling c) Filtration d) Chlorine tablets
3. What type of chemical weathering is enhanced by acid rain?
a) Oxidation b) Hydrolysis c) Dissolution d) All of these
4. In which year forest conservation act comes into existence?
a) 1976 b) 1988 c) 1980 d) 1971
5. Exposure to water pollution cause....
a) Speech interference b) hearing disability c) Respiratory problem d) Stomach infection
6. Which one of the following statement is not valid for aerosols?
a) They are harmful to human health b) They alter rainfall and monsoon pattern
c) They cause increased agriculture productivity d) they have negative impact on agriculture
7. With the addition of organic matter, the bulk density of soil is.....
a) Decrease b) Increase c) Remains neutral d) None of these

8. A well-developed soil profile is result of
 a) Physical process b) Chemical process c) Organic process d) All of these
9. Which of the following problem occur due to the use of nuclear energy?
 a) Accidental leakage b) Formation of compost c) Formation of gobar gas d) Generation of electricity
10. has maximum water holding capacity.
 a) Sandy soil b) Loamy soil c) Clayey soil d) all has same water holding capacity
11. Which one of the following contributes to secondary pollution??
 a) NO_2 b) HNO_3 c) Br_2 d) None of the above
12. Which of the following element is responsible for Minamata disease?
 a) Pb b) Cd c) Hg d) Fe

Q.2) Answer in brief (Solve any 10 out of 12)

[2x10= 20M]

1. What is biological oxygen demand?
2. Why we should plant more trees?
3. Define algal bloom.
4. What is water quality standard?
5. List the major impurities found in domestic waste water?
6. What is the difference between renewable and non- renewable resources?
7. Suggest the control measure for noise pollution.
8. Define thermal pollution.
9. Give the name of any two water and air borne diseases.
10. What are the natural causes of air pollution?
11. What is smog and enlist impacts of it?
12. Define eutrophication

Q.3) Answer the following. (Solve any 4 out of 6)

[5x4= 20M]

1. Comment on cause and effects of noise pollution in detail.
2. Comment on soil pollution on detail.
3. What are greenhouse gases? Name and discuss their contribution and impact in global warming. What are the remedial measures?
4. What do you mean by acid rain? How does it affect both living and non-living thing?
5. What is air pollution? Comment on sources and effects of air pollution.
6. Explain the various water quality standards.