

1/VAC-140 Syllabus-2023

2 0 2 4

(April)

FYUP : 1st Semester Examination

VALUE ADDED COURSE

ENVIRONMENTAL SCIENCE : VAC-140

Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

PART—A

(Short Answer-type Questions)

Answer any *ten* questions :

1×10=10

- 1. What is environment?**
- 2. Expand the acronym of NWDB.**
- 3. Name two renewable energy resources.**
- 4. Who are autotrophs in the ecosystem?**

(2)

5. Mention any two importances of biodiversity to humankind.
6. What does the 10 percent law of energy flow in the ecosystem say?
7. Define pollution.
8. What is ozone hole?
9. Name two prominent environmental movements in India.
10. Name the different components of the environment.
11. What is desertification?
12. Mention two types of aquatic ecosystem.
13. Define biodiversity.
14. Name any two greenhouse gases.
15. In which year was the Environment (Protection) Act enacted?

(3)

PART—B

(Long Answer-type Questions)

Answer any *four* questions : 4×4=16

16. Differentiate between renewable and non-renewable natural resources. 2+2=4
17. What is soil erosion? Briefly write about the soil conservation practices. 1+3=4
18. Explain food web with an example. Why is food web important in the ecosystem? 3+1=4
19. What is a biodiversity hotspot? List out any three biodiversity hotspots of India along with their location. 1+3=4
20. Discuss the measures to achieve sustainable development. 4
21. What is noise? What are the effects of noise pollution? 1+3=4

PART—C

(Essay-type Questions)

Answer the following questions : 10×3=30

22. What is deforestation? Discuss the causes of deforestation. How can we conserve forest resources? 1+5+4=10

Or

What are minerals? List out a few uses of minerals. Write about the environmental impacts of mining. $1+2+7=10$

23. What do you mean by conservation of biodiversity? Discuss *in-situ* and *ex-situ* conservation of biodiversity. $2+8=10$

Or

What is a bio-geochemical cycle? Explain the carbon cycle. Mention a few environmental problems that arise due to human interference in the carbon cycle. $2+6+2=10$

24. Write short notes on the following : $5 \times 2 = 10$

- (a) Salient Features of the Water (Prevention and Control of Pollution) Act
- (b) Impacts of Global Warming and Climate Change

Or

What are point and non-point sources of water pollution? Discuss the causes and effects of water pollution. $2+8=10$

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