

.....EXAMINATION, 2023

.....Exam, 2023

Instructions to Candidates

1. Write your Examination, Roll Number, Registration Number and the other particulars at the Right side of this page only. Do not write your name or the name of your College, anywhere in the Question-cum-Answer Book.
2. You are not allowed to bring any book or loose paper into the Examination Hall.
3. You must not write anything on the question paper or blotting paper or any other material.
4. Any act of indiscipline or misbehaviour in the Examination Hall will result in disciplinary action.
5. You are not allowed to leave the Examination Hall until 30 (thirty) minutes after the commencement of the Examination.

N.B. The space in the margin in all the pages is meant for use of the examiners. Students must not put any mark in that space.

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Ba/Bc/Bs/AECC-2

2023

(CBCS)

(2nd Semester)

ENVIRONMENTAL STUDIES

Paper : AECC-2 : EVS

Full Marks : 37½

Pass Marks : 40%

Time : 2 hours

The figures in the margin indicate full marks for the questions

SECTION—A

(Objective Type)

Put a Tick mark against the correct answer in the box provided :

½ × 15 = 7½

1. The part of the earth and its atmosphere in which organisms live is called

(a) biosphere

(b) biome

(c) biotic

(d) air

2. The Environment Day is celebrated on

(a) 23rd July

(b) 10th May

(c) 5th June

(d) 10th December

3. Trophic structure may be shown graphically by ecological pyramid. Which of the following ecological pyramids will always have a true upright pyramid shape?

(a) Pyramid of numbers

(b) Pyramid of biomass

(c) Pyramid of energy

(d) All of the above

4. The last stage of a succession is known as

(a) invasion

(b) stabilization

(c) nudation

(d) reaction

5. Which of the following water-related vector diseases causes fever and chronic swelling of the legs in human?

(a) Dengue

(b) Chikungunya

(c) Filariasis

(d) Cholera

6. Which of the following two regions from India are hot-spots?

(a) Eastern Himalayas and Western Ghats

(b) Western Himalayas and Eastern Ghats

(c) Northern Himalayas and Western Ghats

(d) Southern Himalayas and Western Ghats

7. Which of the following is not a type of *ex-situ* conservation method?

(a) Botanical garden

(b) Zoological park

(c) Wildlife sanctuary

(d) Gene bank

8. 'TUCN' stands for

- (a) Inter-State Unity of Culture Nature
- (b) Indian Union Congress Nation
- (c) International Unity on Community and Nationality
- (d) International Union for the Conservation of Nature and Natural Resources

9. If individuals of a species remain alive only in captivity or other human controlled conditions, the species is said to be

(a) ecologically extinct

(b) mass extinct

(c) extinct in the wild

(d) anthropogenic extinct

10. The illegal collection of indigenous plants by corporations for their own use is known as

(a) biopiracy

(b) biomagnification

(c) biodegradation

(d) None of the above

11. The water pollution that occurs due to contaminants that enter a waterway from a single, identifiable source is known as

(a) point source pollution

(b) non-point source pollution

(c) man-made pollution

(d) None of the above

12. A decibel is the standard for measurement of

(a) noise

(b) temperature

(c) pressure

(d) None of the above

13. Which of the following processes is involved in the primary treatment of water?

- (a) Screening and sedimentation
- (b) Trickling filters
- (c) Activated sludge process
- (d) Oxidation ponds

14. What is the correct order of 3Rs of waste management?

- (a) Reuse, Reduce and Recycle
- (b) Recycle, Reduce and Reuse
- (c) Reduce, Reuse and Recycle
- (d) Reuse, Recycle and Reduce

15. According to Biomedical Waste Management Rules, 2016 and Amended Rule, 2018, which colour is used for human anatomical waste?

- (a) Yellow
- (b) Red
- (c) White
- (d) Blue

(Short Answer Type)

16. Answer any *five* questions :

(a) Define food chain and food web.

(b) What is population growth?

(c) What is biogeochemical cycle?

(d) What is photochemical smog?

(e) What are *in-situ* and *ex-situ* methods of conservation?

(f) What is bioprospecting?

(g) Define air pollution.

(h) What is eutrophication?

(i) What is hazardous waste?

(Descriptive Type)

(Answer any five of the following questions :)

1. Explain the structure and function of atmosphere.

SECTION—B
(Descriptive Type)

Answer any *five* of the following questions :

5×5=25

1. Explain the structure and function of atmosphere.

2. What is ecological succession? Describe the process involved in it.

3. Define sustainable development. Mention the Sustainable Development Goals (SDGs).

4. What are the major threats to biodiversity?

Give example.

Knowledge ITR /

5. Write a short note on Indigenous Traditional Knowledge (ITK).

6. Write a short note on Intellectual Property Rights (IPR). Give example.

7. What is solid waste? Mention the different methods of solid waste management.

8. Explain the different methods of wastewater treatment.

(20)

9. Discuss the values of biodiversity.

10. Write a short note on energy flow in ecosystem.