UG --- EVS (AECC -- 201) A

2020

Time: 1 ½ hours

Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer all questions.

Answer all multiple-choice questions:

 $1 \times 40 = 40$

- According which ecologist ecology is defined as "The study of structure and function of nature":
 - ∠(i) Odum
 - (ii) Eliote

(D)

- (iii) R. Mishra
- (iv) Margaleaf
- Study of soil is known as :
 - (i) Agronomy

(1)

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(Turn over)

- (ii) Pedagogy
- (iii) Sociobiology
- (iv) None of these
- Predator and Pray relation was given by :
 - (i) Gaus G. F.
 - (ii) Lotka and Voltera
 - (iii) Holling C. S.
 - (iv) None of them
- The study of plant community structure is called ;
 - (i) Ecology
 - (ii) Phytosociology
 - (iii) Autecology
 - (iv) Ecosystem
- 5. The term Autoecology and synecology was coined by:
 - (i) Schroter
 - (ii) A. G. Tansley
 - (iii) Karl Mobius
 - (iv) None of them

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(2)

Contd.

| 6. Bio | ocenosis is the study of : | (ii) 79% | | | |
|--|--|---|--|--|--|
| (i) | Living | (iii) 80% | | | |
| (ii) | Environment | | | | |
| , (iii) | Interaction between living and non-living | (iv) 78.09% | | | |
| (iv) | | 10. Sandy soil contain : | | | |
| 7. Th | e famous plant ecologist of India is : | (i) Kaolin | | | |
| × (i) | M. S. Swaminathan | (ii) Haematite | | | |
| (ii) | Birbal Sahni | (iii) Biotite | | | |
| (iii) | R. Mishra | (iv) Quarts | | | |
| (iv) | J. C. Bose | 11. Root cap is absent in : | | | |
| | e lowest region of Atmoshpere having erential heating which extends from the earth | (i) Lithophyte | | | |
| sur | face to a height of 8 to 10 km at polar latitude | (ii) Hydrophyte | | | |
| is c | alled: | (iii) Xerophytes | | | |
| (i) سر | Troposphere | (iv) Mesophytes | | | |
| (ii) | Stratosphere | | | | |
| (iii) | Mesosphere | 12. Diatoms are commonly known as: | | | |
| (iv) | None of these | (i) Benthos | | | |
| 9. The percentage of Nitrogen in atmospheric air is: | | (ii) Upper surface of water (iii) Saprophytes | | | |
| /(i) | 78% | (iv) Parasites | | | |
| CL - 95/3 | (3) (Tum over) | CL – 95/3 (4) Contd. | | | |
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| 13. | Abysal zone in ocean is characterised by : | | 16. Gaseous exchange in submerged hydrophytes | | | |
|---|--|-----------------------------------|---|-----------------------------|--------------------------|--------------------|
| | (i) | Presence of sunlight and produces | | takes place through: | | |
| | (ii) | Absence of sunlight and living | organisms | | (i) Lenticels | |
| | (iii) | Absence of sunlight | | (| ii) Stomata | |
| به | (iv) Absence of sunlight and p | | resence of | . (| iii) Hydathodes | |
| | | consumers and decomposer | | , (i | v) General surface of pl | lants by diffusion |
| 14. The largest amount of fresh water on our planet | | 17. Sunken stoma are present in : | | | | |
| | is in | - | | (i) | Xerophytes | \mathfrak{O} |
| | (i) | Polar ice caps and glaciers | | (ii |) Hydrophytes | |
| _ | | | \odot | (iii | i) Mesophytes | |
| | (ii) | Underground | | (iv |) Epiphytes | |
| | (iii) | Rivers | | 18. Ca | irbon dioxide content in | atmospheric air is |
| | (iv) | Lakes and streams | | | out: | |
| 15. | Fund | ctional stomata in submerged | l hydrophytes | /fi) | 0.03% | |
| is . | | | | (ii) | 0.34 % | T |
| | (i) | On upper surface of leaf | | (iii) | 3.34 % | Ş. |
| 1 | | | | (iv) | 6.5% | |
| (ii) On lower surface of leaf | | | 19. Soil particles arranged inorder of increasing | | | |
| | (iii) | On both surface of leaf | | are: | | |
| | (iv) | No where on the plant | | (i) | Clay, sand, silt | |
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| (i | i) Silt, sand, clay | | 23. | Di | rect ecologi | cal factor is: | |
|--------------------|----------------------------|----------------|-------------------------------------|-------------------|----------------|----------------|---------------------|
| (i | ii) Sand, silt and clay | | | (i) | Soil struc | cture | |
| _fi | Clay, silt and sand | | , | - (ii) | Wind | | |
| 20. pl | pH of fertile soil is : | | | (iii) Temperature | | | |
| 0 | 2-3 | | | (iv) | | lioxide | |
| ∕ ⁽ⁱⁱ⁾ | 6-7 | D . | 24 | Circ | adian rhyth | m is the metab | olic behaviour of : |
| , (iii |) 8-10 | | 24. | | 24 minute | | , |
| (iv) | 11-12 | | | (i) /::> | | | |
| 21. Hu | Humus is an example of : | | _ | (#) /:::\ | 24 hour cy | | |
| (i) | Crystalloid | | | (iii) | 24 day cy | | |
| (ii) | Soil structure | | | (iv) | 24 month | сусіе | |
| (iii) | Organic colloids | (*) | | - | | | r form Azolla and |
| (iv) | None of these | | Cyanobacterium Anabaena is called : | | | called: | |
| 22. Dor | mancy in animals through | drought or dry | / | (i) | Symbiosis | | |
| season is called : | | | 1 | (ii) | Competition | on | |
| (i) | Hibernation | | • | (iii) | Scavengin | g | |
| _(ii) | Aestivation | | (| (iv) | Commens | alism | |
| (iii) | Diapause | | 26. | The | relationship | which is harr | nful to both the |
| (iv) | None of these | | ı | popu | ılation is cal | lled: | |
| | | | ر | (i) | Neutralism | ı | |
| CL - 95/3 | (7) | (Tum over) | CL-9 | 95/3 | | (8) | Contd. |
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| , (ii) | Competition | | 30. The carrying capacity of a population is |
|------------------------------|---|-------------------|--|
| (iii | | | 30. The carrying capacity of a population is determined by its: |
| (iv |) Antibiosis | | ∠ (i) Population growth rate |
| | e association between sacci ferred as : Sumbiosis Mutualism Parasitism Commensalism | ulina and crab is | (ii) Birth rate (iii) Death rate (iv) Limited resources 31. The ecological pyramid was described by: (i) Tansley (ii) Smith |
| | The positive interaction between two population is called: | | (iv) Weber |
| (i) (ii) (iii) (vi) | Antagonism Competition Predation Symbiosis | | 32. The source of energy which flows through the living world is: (i) Photosynthesis |
| (i) (ii) (iii) | cuta is an example of : Complete stem parasite Complete root parasite Partial root parasite Partial stem parasite | | (ii) Chemical bond (iii) Green plants (iv) The Sun 33. Inverted pyramid of energy flow is: (i) Desert |
| CL - 95/3 | (9) | (Tum over) | CL – 95/3 (10) Contd. |
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| | (ii) | Ocean | | (ii) Cultigen | | |
|-----|--|----------------------------|------------------|---|--|--|
| | (iii) | Tundra | | (iii) Holard | | |
| | (iv) | Rain forest | | (iv) Taiga | | |
| 34. | Epip | hytes are most abundant is | na: | And Imiga | | |
| | (i) | Tropical rainforest | | 38. Which organisms have valent adaptation? | | |
| | (ii) | Temperate deciduous for | est | (i) Insects | | |
| | (iii) | Thom woodland | | (ii) Crow | | |
| | (iv) | Shrubland | | ∕/(iii) Bat | | |
| 35. | Deci | iduous forest have : | | (iv) Peacock | | |
| | (i) | Variety of leaves | | | | |
| 4 | (ii) Broad leaved trees | | | 39. Largest aquatic animal is : | | |
| | (iii) | Narrow leaved trees | | (i) Dolphin | | |
| | (iv) | None of these | | (ii) Crocodile | | |
| 36, | Dese | erts can be converted into | green lands by : | (iii) Tortoise | | |
| | (i) | Oxylophytes | | (iv) Whale | | |
| | (ii) | Psammophytes | | 40. Main air pollutant is : | | |
| | (iii) | Halophytes | | | | |
| _ | (iv) | Tropical trees | | (i) CO | | |
| 37. | A region of wever winter and mild summeris known as: | | | (iii) CO ₂ | | |
| | (i) | Noosphere | | (iv) Fluorides | | |
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