

(2) A natural ecosystem

(3) Scavengers

SHREE RADHEY COACHING CENTER TEST SERIES 1

CLASS 10 - SCIENCE SCIENCE TEST 1

Time Allowed: 3 hours Maximum Marks: 80

| | | Section A | | |
|-----------|--|---|-----|--|
| 1. | Do the freshwater animals reabosrb water through their excretory system like marine | | | |
| | animals? Justify your answer. | | | |
| 2. | Define photolysis. | | [1] | |
| 3. | Name one enzyme which digests prote | in? | [1] | |
| 4. | What do you understand by peristaltic movements? | | | |
| | Which hormone causes release of milk after the birth of young one? | | | |
| 5. | Why is it advised to use iodised salt in the diet? | | | |
| 7. | Name any one symptom of acromegaly. | | | |
| 3. | Name the two portions of adrenal gland. [1 | | | |
| Э. | Mention any one disadvantage of producing new plants by vegetative propagation. [1] | | | |
|). | In which part of the female reproductive tract does the egg gets fertilised? [1] | | | |
| l. | At what age do eggs or follicles start maturing in females? | | | |
| 2. | Give any two modes of asexual reproduction with examples. [1 | | | |
| 3. | Why do you understand by the double helical structure of DNA? Who proposed this structure? [1 | | | |
| ŀ. | Who conducted experiments to show life can originate from inanimate matter? | | | |
| 5. | Parents transmit some of their characteristics into their offsprings. How? | | | |
| 3. | Give the pair of contrasting traits of the following characters in plant and mention which one | | | |
| | is recessive and which is dominant? | | | |
| | (a) yellow seed | | | |
| | (b) round seed | | | |
| 7. | The relationship between biotic and biotic environment is called: | | [1] | |
| | a) Ecosystem | b) Biome | | |
| | c) Community | d) Biosphere | | |
| 3. | Which of the following limits the number of trophic levels in a food chain? | | [1] | |
| | a) Food supply | b) Decrease in energy at each trophic level | | |
| | c) Polluted air | d) Water | | |
|). | Match the following with the correct response: | | [1] | |
| | (1) A man- made ecosystem | (A) Paper, plastic bags, etc | | |
| | | | | |

| 1 | 1 | 3 |
|---|---|---|

(B) Forest, Pond

(C) Aquarium, Grassland

| (4) Recyclable v | waste (D) Housekeepers | | |
|--|---|---------------------|--|
| a) 1-B, 2-D, 3- | -A, 4-C b) 1-A, 2-C, 3-B, 4-D | | |
| c) 1-C, 2-B, 3-1 | D, 4-A d) 1-D, 2-A, 3-C, 4-B | | |
| Match the follow | wing with the correct response: | [1] | |
| (1) Saprotrophs | (A) Organisms obtaining food from green plants | | |
| (2) Parasites | (B) Organisms obtaining food from host | | |
| (3) Autotrophs | (C) Organisms obtaining food from dead plants and animals | | |
| (4) Herbivores | (D) Organisms which prepare their own food | | |
| a) 1-B, 2-D, 3- | -A, 4-C b) 1-C, 2-B, 3-D, 4-A | | |
| c) 1-D, 2-A, 3- | -C, 4-B d) 1-A, 2-C, 3-B, 4-D | | |
| | Section B | | |
| with the police of Read the above 1. What happer 2. What will yo registered by | enquiry, if they would stop. passage and answer the following questions. ns, if a person bleeds profusely? ou do, if the hospital refuses to provide treatment unless the any police? were shown by Sunaina's mother? | | |
| | matically the path of a reflex action. | [3] | |
| - | why hormonal responses are slower than reflex actions. | [3] | |
| i. Where are th | tiny bodies that consist of mainly genetic material and a long | g tail [3] | |
| | role of the long tail? | | |
| Can you think o | How are the sperms delivered from the site of their production? In you think of reasons why more complex organism cannot give rise to new individuals [3] rough regeneration? | | |
| 0 0 | selection in modern terms? Elucidate the three different effe | ects of natural [3] | |
| | eterogametic'. Why? e between inherited and acquired characters by giving two po | [3] | |
| | elp in reducing the problem of waste disposal, give any two n | | |
| - | ays in which biodegradable substances would affect the envi | | |
| Dofino nutrition | n. What are the different modes of nutrition? | [5] | |

- 32. Nervous and hormonal system together perform the function of control and co-ordination in human beings". Justify the statement.
- 33. Describe the various methods of birth control. [5]
- 34. What are fossils? What do they tell us about the process of evolution. [5]
- 35. i. What are animal hormones? List their two characteristics. [5]
 - ii. Name the hormone.
 - a. Which brings change in male humans during the beginning of adolescence.
 - b. Which coordinates the level of sugar in blood?

OR

Name any five vegetables generated from a common ancestor through artificial selection rather than natural selection. Also mention the features for which each vegetable is selected?

- 36. a. Define excretion. [5]
 - b. Name the basic filtration unit present in the kidney.
 - c. Draw excretory system in human beings and label the following organs of excretory system which perform following functions;
 - i. form urine.
 - ii. is a long tube which collects urine from kidney.
 - iii. store urine until it is passed out.

OR

Differentiate between the following:

- i. Pollen tube and style
- ii. Fission in Amoeba and plasmodium
- iii. Fragmentation and regeneration
- iv. Bud of Hydra and Bryophyllum
- v. Vegetative propagation and spore formation