ST. MARY'S CATHOLIC SCHOOL ADDIS ABABA, 2016E.C
SECOND SEMISTER BIOLOGY FINAL EXAMINATION FOR GRADE 9

Time allowed: 1:20hrs.

DIRECTIONS: Choose the best answer from the given alternatives and write your own answer on the separate answer sheet.

1. Which of the following is the correct sequence of classification in ascending order?
   A) Kingdom → phylum → class → order→ family → genus →species.
   B) Species → genus → family → order →class → phylum → kingdom.
   C) Kingdom → phylum → class→family → order→ genus → species.
   D) Species → genus → family →class → order → phylum → kingdom.
2. Which one of the following micro organisms could **not** be killed by boiling at a temperature of 100^0c for 10minute?
   A) Fungi & Viruses.
   B) Polio & Clostridium tetanus.
   C) Clostridium & Hepatitis Virus.
   D) Vibrio cholera & tetanus.
3. Which 0ne of the following is the major transmission method of TB?
   A) Eating of contaminated food.
   B) Droplet of infection.
   C) Poor sanitation & Flies.
   D) Drinking of contaminated water.
4. Which one of the following term include all the other?
   A) Hetrotrophs.
   B) Herbivores.
   C) Carnivores.
   D) Omnivores.
5. Which of the following is NOT an abiotic component of an ecosystem?
   A) Sun light.
   B) Rainfall
   C) Temperature.
   D) Food.

   Question number 6 & 7 Are answered based on the following simplified food web chart.

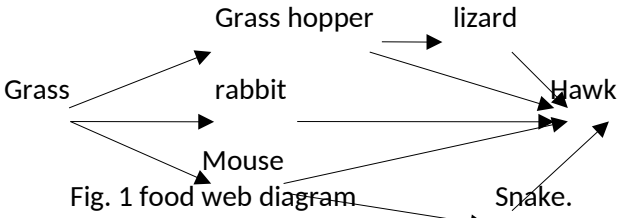


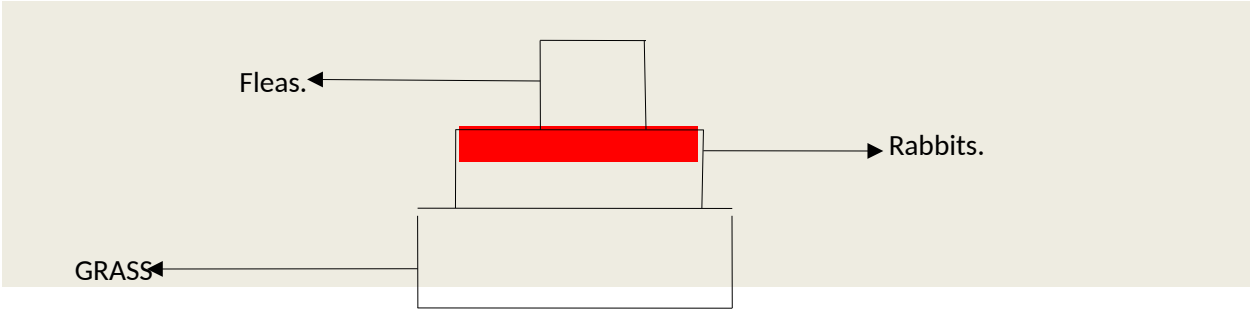
Fig. 1 food web diagram

6. From the above food web diagram, which organisms occupy the third trophic level?
   A) Grass hopper, rabbit & Mouse.
   B) Snake & Lizards.
   C) Lizard, mouse & Snake.
   D) Hawk only.
7. How many food chains are there/found in the food web given above (Fig 1)?
   A) 5 B) 7 C) 6 D) 8.
8. A relation in which one organism is benefited, while the other species is neither benefited nor harmed / affected is:
   A) Commensalism.
   B) Mutualisms.
   C) Proto cooperation.
   D) Parasitism.
9. Which one of the following is a unique characteristics of angiosperms?
   A) Double fertilization.
   B) Formation of zygote.
   C) Seed formation.
   D) the presence of vascular tissue.
10. Which of the following is **NOT TRUE** about class aves (Birds)?
    A) They have a horny beak , but no teeth.
    B) The have very light and spongy bones.
    C) The are homoeothermic.
    D) The are three chambered heart.
11. Which of the following animal is a herbivore animal

A) Lion. B) bacteria. C) Antelope. D) wolves.

12. What is the main concern of Taxonomy/
    A) Identification and nomenclature of organisms.
    B) Proper knowledge transfer.
    C) Interpretation of data.
    D) Analysis and storage of data.
13. Which one of the following plant types have no root, stem, and leaves?
    A) Mosses B) Ferns. C) Rose D) Tid (Junipers).
14. Which one of the following is not true about bryophytes?
    A) They do not have seeds & Fruits.
    B) They are non vascular plants.
    C) They are the simplest land plants.
    D) They are vascular non flowering plants.
15. All of the following organisms are parasitic flat worms EXCEPT:
    A) Acaris. C) Liver fluke.
    B) Fasciola hepatica. D) Tape worms.
16. All of the following animals are grouped under Primary consumers in a particular food chain EXCEPT:
    A) Sheep, antelope,& Zebra. C) lion, tiger & Ethiopian Wolves.
    B) Sheep, horse & Camel. D) Sheep, Human & Antelopes.
17. In which of the following kingdom are yeasts classified?
    A) Plantae. B) Monera. C) Protista. D) Fungi.
18. Plants which have true roots, leaves , stems, & Seeds inside their fruits are:
    A) Angiosperms. C) Ferns..
    B) Gymnosperms. D) Bryophytes.
19. Which one of the following animal is vertebrate animals?
    A) Lizards. B) Snails. C) Earth worms. D) Star fishes.
20. The mating between a Horse and a Donkey produce an infertile offspring (sterile). This indicates that,
    A) They are different species to produce offspring.
    B) They look alike morphologically.
    C) They are the same species.
    D) Their offsprings would be reproduced.

Question number 21 is answered based on the following diagram which show a food chain.



21. Which of the following is true about the above food chain?
    A) The number of fleas is greater than Rabbits.
    B) The number of Rabbits is greater than grass.
    C) Fleas are primary producers.
    D) Rabbits are primary consumers.

22. What is the relationship that exist between Legume plants (PEA, BEAN ETC.) & Rhizobium bacteria?
    A) Mutualism. C) Parasitism.
    B) Commensalism. D) Protocooperation.
23. The total dry mass of all organisms in a trophic level is:
    A) Body mass. C) Weight of an organisms.
    B) Biomass. D) Gross weight.
24. The most dominant plants on the earth at present are:
    A) Bryophytes. C) Lycophytes.
    B) Gymnophytes. D) Angiosperms.
25. If you come across to a vertebrate with its body covered by Hairs & with four limbs ,then the Animal belongs to class:
    A) Aves (Birds) . C) Amphibians.
    B) Mammals. D) Reptiles.
26. Which one of the following taxonomic groups contain closely related organisms?
    A) Phylum. B) Class C) Species. D) Genus.
27. Which one of the following organisms are consumers?
    A) Photosynthetic bacteria. C) Scavenger.
    B) Chemo synthetic bacteria. D) Autotrophs.
28. All of the following are the main characters of Annelids EXCEPT:
    A) They have segmented body. C) they have closed circulatory system.
    B) They are hermaphrodites. D) they have soft bodies.
29. Which of the following is classic example for Gymnosperm plants?
    A) Juniper(Tid). C) Maize.
    B) Eucalyptis (bahirzaf). D) bean & Pea.
30. The sum of all the living and Non living components in a given area is:
    A) Ecology. C) Ecosystem
    B) Environment. D) Habitat.

PART II: FILL IN THE BLANK SPACE ITEM.

DIRECTION: FILL IN THE BLANK SPACE WITH THE APPROPRIATE WORD, OR PHRASE.

31. _____ is a group of related organisms that can breed successfully with an other and produce fertile offsprings.
32. The process of classifying living organisms is _____.
33. Some types of animals including human being eat a diet that contains both plants and animals. They are grouped as _____.
34. _____ is the relationship between two organisms in which both organisms are benefited , but the relation is not Obligatory.
35. _____ Is the smallest unit of classification in a taxonomic hierarchy.

PART III: SHORT ANSWER TYPE.

DIRECTION: WRITE SHORT AND BRIEF ANSWER TO THE FOLLOWING GIVEN QUESTIONS.

1. Why did scientists / Biologists classify living organisms based on their similarities?
2. Explain the difference between monocots and dicot plants, and give at least three examples for each type.
3. What does it mean by abioic factor? List some of the terrestrial abiotic factors that determine the distributions of living organisms in our ecosystem.
4. What is the difference between intra-specific competition and inter- specific competition?
5. How can you reduce the risk of becoming infected with COVID-19?

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