

SUMMULATIVE II WORKSHEET

CLASS X

SUBJECT: BIOLOGY

LESSON : 8, 9, 15

1. Mention the two most common methods of asexual reproduction in animals?
2. Name two organisms which reproduce by binary fission?
3. Asexual reproduction takes place through budding in :
(a) Amoeba (b) Yeast (c) Plasmodium (d) Leishmania
4. The anther contains:
(a) Sepals (b) Ovules (c) Carpel (d) Pollen grains
5. What technical term is given to the future shoot and future root in the embryo in a seed?
6. Name the scientist who established the laws of inheritance?
7. Define inheritance?
8. Write the scientific term used for the science of heredity and variation?
9. What is a dominant trait?
10. What is a recessive trait?
11. What is meant by the term 'environment' ?
12. Name any 2 non-biodegradable substances?
13. Name any 2 biodegradable substances?
14. Name 2 constituents of biotic environment?
15. Name 1 constituent each of biotic and abiotic environment?
16. Which of the following is not a part of biotic community?
(a) Algae (b) Mushroom (c) Moss (d) Water
17. Give the scientific term for organisms which feed directly on plants?
18. Name any 2 omnivores?
19. Give an example of 3 step food chain operating in grassland?
20. Write an aquatic food chain?

21. Give the technical term for the graphic representation of the trophic structure in a food chain?

22. Write a food chain in a forest ecosystem?

23. Rearrange the following according to their ascending trophic levels in a food chain?

24. Which of the following belongs to the same trophic level?

(a) Hawk (b) Deer (c) Grass (d) Rabbit (e) frog

25. In the following food chain, 4 J of energy is available to lion. How much energy was available at the producer level?

Plants $\longrightarrow$ Deer $\longrightarrow$ Lion

26. Define Bio-accumulation (Biomagnification) ?

27. Animals at which trophic level are expected to have the maximum concentration of harmful chemicals in their body?

28. The use of DDT is discouraged, since the chemical is found in human body. Name the process by which the chemical enters the human body?

29. Which of the following belonging to a food chain is likely to have maximum concentration of harmful chemicals in the body?

(a) Kingfisher, Zooplankton fish, Phytoplankton

(b) Peacock, Frog, Snake, Grasshopper

(c) Frog, Hawk, Grasshopper, Snake

30. Which layer of the atmosphere is mainly responsible for the absorption of ultraviolet radiations coming from the sun?

31. How does reproduction help in providing stability of populations of species?

32. Differentiate between self-pollination and cross-pollination

33. Name the 2 parts of a stamen? Where are pollen grains present?

34. Mention any 2 contraceptive methods used by women? Mention how each of them can be harmful?

35. Explain the terms Fission and Regeneration as used in relation to reproduction?

36.What is vegetative propagation? List any 2 methods of artificial vegetative propagation?

Name the method used in propagating (i) rose and (ii) guava

37.Draw a diagram of the flower to show the male and female reproductive parts. Label on it (i) the ovary (ii) the anther (iii) the filament (iv)the stigma

38.Draw a labeled diagram of the L.S of carpel/pistil showing the growth of pollentube in it

39.What are male and female gonads in human beings? State any 2 functions of each of them?

40.Enumerate the steps in the production of new plants through tissue culture . What is its significance?

41.Differentiate between inherited and acquired characters/traits?

42.What are homologous organs? Give an example

43. Who postulated the theory of natural selection? Why was this theory criticized?

44.Differentiate between natural selection and artificial selection?

45.Explain the mechanism of sex determination in the zygote?

46.Explain the importance of fossils in deciding the evolutionary relationships?

47.What are decomposers? State their importance in the biotic environment?

48.Explain the role of decomposers in biotic environment ?

49.Explain how will it affect the environment , if all the decomposers are removed from the ecosystem?

50.Write the food chain operating in a fresh water pond. Mention the food habit of each trophic level in the food chain?

51.Mention the difference between the food habits of organisms belonging to the first and the third trophic levels. Give 1 example of each of them?

52.Which food chain are advantageous in terms of energy? Support your answer giving 1 example.

53.Given below is a food chain

Grasses $\implies$ Grasshopper $\implies$ Frog $\implies$ Snake

What will happen to the members of different levels if all the frogs were removed?

54. Describe how ozone present in the atmosphere is important for sustaining life on earth?

55. What is a food chain? Write a food chain operating in a grass land ? What would happen if all the grazers of grass disappear from the grassland?

56. Write two differences between a food chain and a food web? Draw a food web involving plants, grasshopper, rabbit, rat, hawk, snake & frog.