**Guess Paper 2013**

**Class- X**

**Subject –Biology**

1. Producers always occupy the first trophic level in any food chain. Why?1
2. Pre-natal sex determination has been prohibited by law. State two reasons. 2
3. Name the type of compounds which are used as refrigerants and in fire extinguishers and deplete 1 the ozone layer n the atmosphere.
4. What is placenta? State its any two roles during pregnancy. 2
5. List any four stakeholders which may help in the conservation of forests. 2
6. State in brief the function of the following organs in the human female reproductive system: 3 (a) Ovary (b) Fallopian tube (c) Uterus
7. State two reasons of launching the “Ganga Action Plan”. Which bacteria was found in Ganga 3 water indicating contamination?
8. (i) Define Heredity. 3 (ii) Differentiate between inherited and acquired traits.
9. The genotype of green stemmed tomato plants is denoted as GG and that of purple stemmed 3 tomato plants is denoted as gg. When these two are crossed with each other:- (a) what colour of stem would you expect in the F1progeny? (b) Give the percentage of purple stemmed plants if F1 plants are self pollinated (c) In what ration would you find the genotypes GG and gg in the progeny? Draw flow chart in support of you answer.
10. (a) Different between Pollination and Fertilization. 5 (b) Different between self pollination and cross pollination.
11. Select the biodegradable wastes from the following : 1 DDT, Crop’s residue, Leather and glass
12. In a food chain consisting of snake, insect, grass and frog, assign an appropriate trophic level 1 to frog.
13. Name those parts of a flower which serve the same function as the following do in the animal :- 2 (i) Testis (ii) Ovary (iii) Eggs (iv) Sperms
14. What are sexually transmitted diseases? Name an STD which damages the immune system of 2 human body?
15. Distinguish between analogous organs and homologous organs. Identify the analogous and 3 homologous organs amongst the following: Wings of and insect, wings of a bat, forelimbs of frog, forelimbs of human.
16. Explain with the help of flow chart – “What determines the sex of a child genetically” 3
17. What is the importance of D.N.A. copying in reproduction? Why is variation beneficial to the 3 species but not necessary for the individual? Explain.
18. (a) What is the role of seminal vesicles and the prostate gland? 2+3 (b) what are the three categories of contraception methods? Write briefly about each.
19. Why is vegetative propagation practiced for growing some plants? Give two examples of plants grown 3 by this method.
20. What are three “R”s in saving the environment? 1
21. Why is depletion of Ozone layer a cause of concern? 1
22. (a) Surgical method can be used to create a block in the reproductive system for contraceptive 1+1=2 purpose. Name such parts where blocks are created in: (i) Males (ii) Female
23. Observe the food chain 1+1=2 (a) If autotrophs occupying the first trophic level are called producers what are herbivores called as? (b) How much energy does the lion get in the above food chain?
24. (a) Name the plant used by Mendel to carry out his experiments. 3 (b) Study the following cross and answer the question that follow Parents Green and Round seed X yellow and Wrinkled seed F 1 Generation All Green and Round seeds F 2 Generation Green and Round (9) green and Wrinkled (3) Yellow and Round (3) Yellow and Wrinkled (1) (i) List the Dominant and Recessive characters. (ii) Are the characters linked or independent?
25. (a) Place the following in the correct sequence 3 Natural Selection /Migration/ Mew species/ Gene flow. (b) Why are the wings of Bat and wings of Bird called Analogous organs? (c) Evolution of Cauliflower, Broccoli, Cabbage, red cabbage is all from Wild cabbage. Is this an example of natural Selection or Artificial Selection? Justify.
26. “Only father is responsible for the sex of a new born child”. Explain with the help of a neat illustration.
27. Differentiate between: 3 (a) Asexual and sexual reproduction. (b) Plumule and Radicle (c) Pollination and Fertilization.
28. (a) List any two changes observed in the body of a female during puberty. (b) State in brief the formation of seed in a flower.
29. The flow of energy in the food chain is unidirectional why? 1
30. How can we as an individual help in reducing the use of fossil fuels? Mention two ways. 1
31. Explain with the help of two examples how the participation of local people has led to conservation of 2 forest in the past.
32. State in brief two functions of copper- T used by some women. 2
33. What is fragmentation? Name a multhcellular organism which reproduces by this method. 2
34. (a) Differentiate between germination and fertilization. 2+2=4 (b) Differentiated between pollen grain and ovule.

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