

CLASS XII BIOLOGY CH-7 EVOLUTION BOARD QUESTIONS

1. . Comment on the similarity between the wings of a cockroach and the wings of a bird.
What do you infer from the above with reference to evolution?
2. Why are analogous structures a result of convergent evolution?
3. Since the origin of life on earth, there were five episodes of mass extinction of species.
 - (i) How is the “sixth extinction”, presently in progress, is different from the previous episodes?
 - (ii) Who is mainly responsible for the ‘sixth extinction’
 - (iii) List any four points that can help to overcome this disaster
4. List any two propositions of Oparin and Haldane.
5. List any two characteristics of mutation that helps in explaining evolution.
6. Name any two vertebrate body parts that are homologous to human forelimbs.
7. Write Oparin and Haldane’s hypothesis about the origin of life on earth. How does meteorite analysis favour this hypothesis?
8. Explain the increase in numbers of melanic moths in the urban areas of post-industrialization period in England.
9. (a) Rearrange the following in an ascending order of evolutionary tree:
Reptiles, salamander, lobefins, frogs
- (b) Name two reproductive characters that probably make reptiles more successful than amphibians.
10. Darwin observed a variety of beaks in small black birds inhabiting Galapagos Islands. Explain what conclusion did he draw and how.
11. How does the process of natural selection affect Hardy-Weinberg equilibrium? Explain. List other four characters that disturb the equilibrium.
12. (a) Explain taking one example of vertebrate anatomy that evolution of life forms has occurred on earth.
- (b) “Nature selects for fitness”, Explain with suitable example.
13. How does ‘shift’ in Hardy Weinberg’s equilibrium lead to founder effect?