

OPEN STUDENT FOUNDATION

CHAPTER 7 EVOLUTION

STD 12TH Biology

Date : 22/02/24

Total Marks: 30

PRACTICE SHEET DAY 4

Time: 1 hr

Section A

- Choose correct answer from the given options. [Each carries 1 Mark] [10]
- Which of the following is used as an atmospheric pollution indicator ?
(A) Lepidoptera (B) Lichens (C) Lycopersicon (D) Lycopodium
 - The theory of spontaneous generation stated that
(A) life arose from living forms only
(B) life can arise from both living and non-living
(C) life can arise from non-living things only.
(D) life arises spontaneously, neither from living nor from the non-living.
 - Animal husbandry and plant breeding programmes are the examples of
(A) reverse evolution (B) artificial selection (C) mutation (D) natural selection
 - Palaentological evidences for evolution refer to the
(A) development of embryo (B) homologous organs
(C) fossils (D) analogous organs.
 - The bones of forelimbs of whale, bat, cheetah and man are similar in structure, because
(A) one organism has given rise to another (B) they share a common ancestor
(C) they perform the same function (D) they have biochemical similarities
 - Viviparity is considered to be more evolved because
(A) the young ones are left on their own
(B) the young ones are protected by a thick shell
(C) the young ones are protected inside the mother's body and are looked after they are born leading to more chances of survival
(D) the embryo takes a long time to develop
 - Evolution of life shows that life forms had a trend of moving from
(A) land to water (B) dryland to wet land
(C) fresh water to sea water (D) water to land
 - Appearance of antibiotic-resistant bacteria is an example of
(A) adaptive radiation (B) transduction
(C) pre-existing variation in the population (D) divergent evolution
 - Fossils are generally found in:
(A) sedimentary rocks (B) igneous rocks (C) metamorphic rocks (D) any type of rock
 - For the MN-blood group system, the frequencies of M and N alleles are 0.7 and 0.3, respectively. The expected frequency of MN-blood group bearing organisms is likely to be
(A) 42% (B) 49% (C) 9% (D) 58%

Section B

- Write the answer of the following questions. [Each carries 2 Marks] [6]
- Describe theory of natural selection ? Who gave this theory ?
 - Give scientific reason : Genetic drift is much more likely to change allele frequencies in a small population rather than large population.

3. Give difference : Divergent Evolution and Convergent Evolution

Section C

● Write the answer of the following questions. [Each carries 3 Marks]

[15]

4. Explain adaptive radiation.
5. State the modifications of forelimb in animals as an example of homology.
6. Write short note on Lamarckism.
7. Who gave mutation theory of evolution and explain it.
8. Explain antibiotic resistance observed in bacteria in light of Darwinian selection theory.



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| No | Ans | Chap | Sec | Que | Universal_Queld |
|-----|-----|--------|-----|-----|------------------------|
| 1. | B | Chap 6 | S5 | 1 | QP23P11B1214_P1C6S5Q1 |
| 2. | C | Chap 6 | S5 | 2 | QP23P11B1214_P1C6S5Q2 |
| 3. | B | Chap 6 | S5 | 3 | QP23P11B1214_P1C6S5Q3 |
| 4. | C | Chap 6 | S5 | 4 | QP23P11B1214_P1C6S5Q4 |
| 5. | B | Chap 6 | S5 | 5 | QP23P11B1214_P1C6S5Q5 |
| 6. | C | Chap 6 | S5 | 10 | QP23P11B1214_P1C6S5Q10 |
| 7. | D | Chap 6 | S5 | 9 | QP23P11B1214_P1C6S5Q9 |
| 8. | C | Chap 6 | S5 | 8 | QP23P11B1214_P1C6S5Q8 |
| 9. | A | Chap 6 | S5 | 11 | QP23P11B1214_P1C6S5Q11 |
| 10. | A | Chap 6 | S5 | 12 | QP23P11B1214_P1C6S5Q12 |

Section [B] : 2 Marks Questions

| No | Ans | Chap | Sec | Que | Universal_Queld |
|----|-----|--------|-----|-----|------------------------|
| 1. | - | Chap 6 | S1 | 14 | QP23P11B1214_P1C6S1Q14 |
| 2. | - | Chap 6 | S2 | 4 | QP23P11B1214_P1C6S2Q4 |
| 3. | - | Chap 6 | S2 | 2 | QP23P11B1214_P1C6S2Q2 |

Section [C] : 3 Marks Questions

| No | Ans | Chap | Sec | Que | Universal_Queld |
|----|-----|--------|-----|-----|-------------------------|
| 4. | - | Chap 6 | S1 | 9R5 | QP23P11B1214_P1C6S1Q9R5 |
| 5. | - | Chap 6 | S1 | 11 | QP23P11B1214_P1C6S1Q11 |
| 6. | - | Chap 6 | S1 | 13R | QP23P11B1214_P1C6S1Q13R |
| 7. | - | Chap 6 | S1 | 15 | QP23P11B1214_P1C6S1Q15 |
| 8. | - | Chap 6 | S4 | 1 | QP23P11B1214_P1C6S4Q1 |