

**BHARATIYA VIDYA BHAVAN'S V.M.PUBLIC SCHOOL, VADODARA**  
**SESSION 2017-18**  
**Question Bank**

**CHAPTER-7**  
**EVOLUTION**

**VERY SHORT ANSWER QUESTIONS (1 marks each)**

- Q1 What is the cozoic theory of origin of life?  
Q2 Name the theory by which earth originated.  
Q3 Who proposed the theory of chemical evolution?  
Q4 What is analogy?  
Q5 Where did life appear?  
Q6 What do you mean by adaptive radiation?  
Q8 What is divergent evolution?  
Q9 When did first cellular form of life appear?  
Q10 Define homology.  
Q11 What is evolutionary biology?  
Q12 Name one earliest fossil of pre-historic man.  
Q13 What is fossil?  
Q14 What do you mean by Darwin's finches?  
Q15 Name the first ape man.  
Q16 Write the analogous organs in plants.  
Q17 Name the ancestor of bryophytes.  
Q18 Name the descent of seed fern.  
Q19 What is palaeontology?  
Q20 What is cosmology?

**SHORT ANSWER TYPE QUESTIONS (2 marks each)**

- Q1 What is the significance of Archaeopteryx in the study of organic evolution?  
Q2 What is speciation? List any two events leading to speciation.  
Q3 What is meant by homologous organ? Taking suitable example, explain how they support the theory of organic evolution?  
Q4 Give one example of analogy and homology plants.  
Q5 Define the following giving one example each.  
(i) Homologous organ  
(ii) Analogous organ.  
Q6 Explain the concept of differential reproduction as a major component of theory of natural selection.  
Q7 What is differential reproduction?  
Q8 Would you consider the wings of a butterfly and a bat as homologous or analogous?  
Q9 Mention any four details that can be inferred about organism from their fossil?  
Q10 How do you consider tendrils of cucurbita and thorns of Bougainvillea as homologous structure?

**SHORT ANSWER QUESTIONS (3 marks each)**

- Q1. What are fossils? mention any two ways in which the study of fossils support biological evolution of an organism.  
Q2. How does the resistance of mosquitoes to DDT explain Darwin's theory of natural selection?  
Q3. Explain natural selection with respect to industrial mechanism.  
Q4. What is meant by abiotic synthesis? who proposed the idea and supported them experimentally?  
Q5. How did Urey and Miller provide the condition of primitive earth to prove the origin of life in their experiments?  
Q6. What do you understand by differential reproduction and reproductive isolation?

**LONG ANSWER QUESTIONS (5 marks each)**

- Q1. Trace the origin and evolution of man.  
Q2. Mention the salient features of Hugo de Vries' theory of mutation. How do Hugo de Vries' theory differ from Darwinism?  
Q3. Give an account of the factor that affects Hardy-Weinberg equilibrium.  
Q4. Show that Darwin's natural selection is based on natural observation with an example for each.