



**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2023**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**ZOOLOGY**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>		
<b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b>		
<b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>		
<b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>		
<b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>		
<b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		

**PART-II**

- Q. No. 2.** Dengue over the years has expanded significantly. Give a comprehensive management plan to reduce the disease burden. **(20)**
- Q. No. 3.** Migration is one of the most widespread characters of some of the chordates. Discuss. **(20)**
- Q. No. 4.** Cell to organism. How does this natural phenomena happen? **(20)**
- Q. No. 5.** What are enzymes and coenzymes? Discuss their role in life of the organism and the activities that are dependent upon them. **(20)**
- Q. No. 6.** Biogeochemical cycles are dependent on natural elemental sources for improving sustainability of ecosystems. How do these ecological drivers work and what is their impact on the environment? **(20)**
- Q. No. 7.** Integument pays a vital role in the survival of individuals. How would you compare the integument of invertebrates and which according to your opinion is the most diversified one and why? **(20)**
- Q. No. 8.** Make a comparison of feeding and digestion process in carnivores and Herbivores. **(20)**

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