



**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2021**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**ZOOLOGY**

Roll Number

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

**PART-II**

- Q. No. 2.** Explain X-linked inheritance with the description of hemophilia disease in humans. **(20)**
- Q. No. 3.** Describe cellular processes that occur in various phases of cell cycle. **(20)**
- Q. No. 4.** How the theory of evolution was incorporated into the science of Taxonomy? **(20)**
- Q. No. 5.** Discuss the evidence that link hemichordate with chordate animals. **(20)**
- Q. No. 6.** Discuss the integumentary system in invertebrates. **(20)**
- Q. No. 7.** How evolution is reflected in body plans of animal kingdom? **(20)**
- Q. No. 8.** Explain the action of hormones on membrane bound and nuclear receptors. **(20)**

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