



**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION - 2016  
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) Candidate must 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 attempted question will not be considered.</b>		

**PART-II**

- Q. No. 2.** Give an overview of National Parks of Pakistan and discuss current status of biodiversity in these parks. (20)
- Q. No. 3.** (a) Write down major reasons of success on earth in case of Arthropods. (10)  
(b) Explain different embryological stages in the development of an Echinoderm. (10) (20)
- Q. No. 4.** (a) Describe different evolutionary trends in invertebrates and vertebrates reproduction. (10)  
(b) What do you know about endogenous and exogenous fishes of Pakistan? (10) (20)
- Q. No. 5.** What do you know about Recombinant DNA technology? What are its basic steps and how this technology is beneficial to us? (20)
- Q. No. 6.** Discuss Green House Effect and Global Warming in the scenario of present climatic conditions. (20)
- Q. No. 7.** (a) Discuss the role of Hypothalamus in controlling pituitary gland function. (10)  
(b) How nervous system acts on animal behaviour? Explain with examples. (10) (20)
- Q. No. 8.** Write short notes on TWO of the following topics: (10 each) (20)  
(a) DNA Replication process in prokaryotes and eukaryotes  
(b) Zoonotic Diseases  
(c) Plate-Tectonics Theory

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