



FEDERAL PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION-2019
FOR RECRUITMENT TO POSTS IN BS-17
UNDER THE FEDERAL GOVERNMENT

Roll Number

ZOOLOGY

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

PART – II

- Q. No. 2.** Discuss emerging vector-borne zoonotic diseases of public health importance. Describe the impact of climate change on vector-borne diseases. (20)
- Q. No. 3.** How the members of Chordates are different from Hemichordates? Name five hallmarks shared by all chordates and describe functions of each. (20)
- Q. No. 4.** What is the difference between bird's migration and navigation? Discuss navigational resources used by different bird species in long distance migration. (20)
- Q. No. 5.** How gene mutation differ from chromosomal aberration? Discuss the type(s) of mutation responsible for new variation of a trait. (20)
- Q. No. 6.** Discuss sexual and asexual reproduction in protozoa. Explain parthenogenesis. (20)
- Q. No. 7.** Describe Fluid-Mosaic Model of the plasma membrane. What are different types of movements across the plasma membrane? (20)
- Q. No. 8.** Discuss the structure and functions of different types of neurons. Describe general pathway for the flow of information within the nervous system. (20)
