FEDERAL PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION - 2016
FOR RECRUITMENT TO POSTS IN BS-17
UNDER THE FEDERAL GOVERNMENT

ZOOLOGY

TIME ALLOWED: THREE HOURS PART-I(MCQS): MAXIMUM 30 MINUTES	PART-I (MCQS) MAXIMUM MARKS = 20 PART-II MAXIMUM MARKS = 80

NOTE: (i) Part-II is to be attempted on the separate **Answer Book.**
    (ii) Attempt **ONLY FOUR** questions from **PART-II. ALL** questions carry **EQUAL** marks.
    (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.
    (iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.
    (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
    (vi) Extra attempt of any question or any part of the attempted question will not be considered.

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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