

# FEDERAL PUBLIC SERVICE COMMISSION



## COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2013

Roll Number

### ZOOLOGY, PAPER-I

|   |                      |                                 |                          |
|---|----------------------|---------------------------------|--------------------------|
| <b>TIME ALLOWED:</b>  | <b>(PART-I MCQs)</b> | <b>30 MINUTES</b>               | <b>MAXIMUM MARKS: 20</b> |
| <b>THREE HOURS</b>  | <b>(PART-II)</b>     | <b>2 HOURS &amp; 30 MINUTES</b> | <b>MAXIMUM MARKS: 80</b> |
| <b>NOTE:</b> (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back after 30 minutes. |                      |                                 |                          |
| (ii) Overwriting/cutting of the options/answers will not be given credit.   |                      |                                 |                          |

### PART-I (MCQs) (COMPULSORY)

**Q.1. (i)** Select the best option/answer and fill in the appropriate Circle (●) on the OMR Answer Sheet. (20x1=20)  
**(ii)** Answers given anywhere, other than OMR Answer Sheet, shall not be considered.

1. Metamerically segmented worms belong to phylum:  
(a) Nematoda (b) Platyhelminthes (c) Annelida (d) None of these
2. Which of the following is a multiflagellate Protozoa?  
(a) Ceratium (b) Noctiluca (c) Leishmania (d) None of these
3. Spicules are secreted by:  
(a) Scleroblasts (b) Nematoblasts (c) Endoblasts (d) None of these
4. Which of the following is a porous opening through which water enters the hydrocoel of an echinoderm?  
(a) Pedicellaria (b) Tube feet (c) Madreporite (d) None of these
5. The body cavity of most triploblastic animals formed by splitting the mesoderm into an outer and an inner layer is called:  
(a) Coelenteron (b) Coelom (c) Colon (d) None of these
6. Compound eyes are found in:  
(a) Platyhelminthes (b) Echinodermate (c) Mollusca (d) None of these
7. Egg-laying mammals are placed in sub class:  
(a) Metatheria (b) Prototheria (c) Theria (d) None of these
8. Open circulatory system is found in:  
(a) Birds (b) Earthworms (c) Cockroaches (d) None of these
9. Bivalve molluscs are usually:  
(a) Scavengers (b) Deposit feeder (c) Filter feeder (d) None of these
10. The pillar or central axis around which the whorls of a gastropod shell are coiled is called:  
(a) Columella (b) Collembola (c) Colloblasts (d) None of these
11. The ninth vertebra of frog is known as:  
(a) Cervical (b) Sacral (c) Urostyle (d) None of these
12. The stage in an embryo in which the primary germ layers have been laid down is called:  
(a) Gastrula (b) Blastula (c) Morula (d) None of these
13. A fish which migrates down river to spawn in the sea is called:  
(a) Anadromous (b) Catadromous (c) Dromiacea (d) None of these
14. Which of the following has four-chambered heart?  
(a) Dog fish (b) Frog (c) Pigeon (d) All of these
15. Facets by which vertebrae articulate with one another are called:  
(a) Metapophyses (b) Parapophyses (c) Zygopophyses (d) None of these

# Zoology Paper I Federal Public Service Commission

**Pakistan. Federal Public Service  
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**Report on the Federal Public Service Commission** Nigeria. Federal Public Service Commission, 1959 *Wildlife Ecology: Conservation And Management* Dr. Nadim Chishty, Dr. Habiba Bano, Mr. Narayan Lal Choudhary, Mr. Pushkar Kumawat, 2022-12-06 For the present purpose we may state that wildlife management means the management of animal populations within the framework of the environment Some would find it too narrow arguing that wildlife management should also include education outreach park management law enforcement economics and land appraisal since so many management issues are rooted in interactions between humans and animals Many of the most pressing questions in wildlife ecology may be reduced to numbers such as the rate of population increase the extent of dispersion or the effects of interactions with other species and the surrounding environment A conceptual grasp of quantitative ecology is necessary for dealing with these issues Because we can't always depend on experience to determine the most suitable options mathematical models are also a vital part of decision making in wildlife conservation and management The book also demonstrates that a comprehensive approach is necessary to deal with environmental problems as opposed to a piecemeal single pollutant or single medium approach *Pakistan Affairs*, 1980 Monthly Catalog of United States Government Publications, 1977 Competitive Examination, Held at Karachi, Lahore, Peshawar, and Rawalpindi, in December 1976-January 1977 Pakistan. Federal Public Service Commission, 1977 Annual Report of the Curator of the Museum of Comparative Zoölogy at Harvard College, to the President and Fellows of Harvard College for ... Harvard University. Museum of Comparative Zoology, 1890 Report of the Federal Security Agency: Public Health Service United States. Public Health Service, 1922 Subject Catalogue of the Royal Commonwealth Society, London: Africa: West Africa, East Africa Royal Commonwealth Society. Library, 1971 Annual Report, 1885 **Annual Report of the Trustees of the State Museum of Natural History** New York State Museum, New York State Museum and Science Service, 1885 *Annual Report on the New York State Museum of Natural History* New York State Museum of Natural History, 1885 *Annual Report of the Trustees of the State Museum of Natural History for the Year ...*, 1884 Annual Report of the Regents of the University on the Condition of the State Cabinet of Natural History, with Catalogues of the Same New York State Museum, 1885 **The Bookseller**, 1888 *Careers in Federal Service for the College Trained* Arthur Liebers, 1948 **Bookseller**, 1887 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series *The Bookseller and the Stationery Trades' Journal*, 1887 Official organ of the book trade of the United Kingdom **Report of the Union Public Service Commission for the Period ....** India. Union Public Service Commission, 1982 ICAR Annual Report Indian Council of Agricultural Research, 1940 **Bookseller and the Stationery Trades' Journal**, 1886

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