## Q.P. Code: 07977

[Time: 2½ Hours] [ Marks:60] Please check whether you have got the right question paper. N.B: 1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Draw neat and labeled diagrams wherever necessary. Q.1 Attempt **any two** questions from the following: a) Describe the phylogeny of Nematehelminthes. 6 6 b) Briefly explain the salient features of Arthropoda. 6 c) Enlist characteristic features of Acanthocephala 6 d) "Peripatus is referred to as the connecting link between annelid worms and arthropods. Discuss. Q.2 Attempt any two questions from the following 6 a) Discuss the affinities of Urochordata. Enumerate and explain the general and primitive characters of Cephalochordata. 6 c) Enlist the evolutionary changes that led to the origin of first vertebrates. 6 d) Explain the affinities of Cyclostomes with reference to resemblances with Cephalochordata and 6 Vertebrate characters. 6 Q.3 Attempt any two questions from the following: a) "Archaeopteryx is considered to be a connecting link between reptiles and birds". Discuss 6 6 b) Write an essay on birds as glorified reptiles. c) Enumerate and comment on the characters with examples of any six orders of Eutherians. 6 d) Enlist and describe types of cheek teeth with reference to cusps. 6 Q.4 Attempt **any two** questions from the following: a) Submit a detailed account of pectoral girdle of shark and bony fish. 6 b) Write a comparative note on pelvic girdle of Varanus and pigeon. 6 c) Enumerate the similarities and dissimilarities between humerus of frog and rabbit. 6 d) Describe and compare femur of frog and Varanus. 6 Q.5 Attempt any four short notes from the following: a) Parasitic adaptations of physiological nature in Platyhelminths. 3 3 b) Centipede. 3 c) Herdmania 3 d) Important features of Ostracoderms 3 e) Characteristic features of Neornithes. f) Duck billed platypus 3 3 g) Humerus of pigeon h) Tibiofibula of frog 3