

**Total No. of Pages:** 1

**6629**

Register Number:

Name of the Candidate:

**M.Sc. DEGREE EXAMINATION, May 2015**  
**(MARINE BIOLOGY AND OCEANOGRAPHY)**  
**(FIRST YEAR)**  
**140: VERTEBRATES**

Time: Three hours

Maximum: 100 marks

**Answer ALL questions**

**(5 × 20 = 100)**

1. a) Give an account of progression of vertebrates through time.  
(OR)  
b) Describe about the four hallmark features of chordates.
2. a) Describe about the evolution of Elasmobranches fishes.  
(OR)  
b) Describe about adaptive radiation in Bony fishes.
3. a) Give an account of Mesozoic marine Reptiles.  
(OR)  
b) Give an account on Marine sea snakes, their distribution and feeding habit.
4. a) Classify Marine mammals and give characterises features of each level.  
(OR)  
b) Write an essay on evolution of placental mammals.
5. a) Write an essay on Embryology of fish.  
(OR)  
b) Write an essay on Embryology of Bird.

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