

D 6734

(Pages : 2)

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

Zoology

ZO 3E 08—FISHERY BIOLOGY I—TAXONOMY, BIOLOGY, PHYSIOLOGY AND ECOLOGY

Time : Three Hours

Maximum : 36 Weightage

I. Answer all *fourteen* questions :

- 1 Dipnoi.
- 2 Types of chromatophores in fishes.
- 3 Ovoviviparity.
- 4 Otoliths.
- 5 Diadromous migration.
- 6 Pituitary gland.
- 7 X organ.
- 8 Neuroendocrine secretion.
- 9 Somali current.
- 10 Net primary productivity.
- 11 Upwelling.
- 12 Positive estuary.
- 13 Pelagic zone.
- 14 Spiral valve.

(14 × 1 = 14 weightage)

II. Answer any *seven* of the following :—

- 15 Oxygen transportation in fish blood.
- 16 Physiological adaptations of cave dwelling animals.
- 17 Accessory respiratory organs.
- 18 Phytoplankton productivity.

Turn over

- 19 Adaptation of hill stream fishes.
- 20 Reservoir fisheries.
- 21 Ocean currents.
- 22 Adaptations of deep sea fishes.
- 23 Discontinuous distribution.
- 24 Modification of fins in osteichthyes.

(7 × 2 = 14 weightage)

III. Answer any *two* questions :—

- 25 Describe the methods of osmoregulation in marine and freshwater fish.
- 26 Write an account on food and feeding mechanisms of fish.
- 27 Describe the role of hormones in reproduction of fish.
- 28 Describe various types of ecological significance of coral reefs.

(2 × 4 = 8 weightage)