



**RZ-003-001643**

Seat No. \_\_\_\_\_

**B. Sc. (Sem. VI) (CBCS) Examination**

**March - 2019**

**Z - 603 : Reprod. Physiology, Embryology, Env.  
Pollu. & Ecology  
(Old Course)**

**Faculty Code : 003**

**Subject Code : 001643**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- Instructions :** (1) Full marks of questions indicate right side.  
(2) Draw neat diagram with labels

- 1 Answer for the following questions : **20**
- (1) How many pairs of somites are present in 24 hours chick embryo?
  - (2) What is placenta?
  - (3) Which cells give nourishment to spermatozoa?
  - (4) Define food web
  - (5) Give Full name of B.O.D.
  - (6) Define ecosystem
  - (7) Which hormone is secreted by placenta?
  - (8) Which animal is key to understanding evolutionary theory of Darwin?
  - (9) What is lactogenesis?
  - (10) Give the location of corona radiata in human egg cell.
  - (11) What is external fertilization?
  - (12) A well developed primitive streak is formed after incubation of \_\_\_\_\_ hours.

- (13) Regeneration in lizard tail is example of \_\_\_\_\_ type of regeneration.
- (14) What is Oceanic Island?
- (15) Who give term ecosystem?
- (16) What is population dynamic?
- (17) Make a list of primary air pollutant.
- (18) Kangaroo belongs to \_\_\_\_\_ Zoogeographic region.
- (19) Erosion is associates with \_\_\_\_\_ pollution
- (20) Cranium capacity of packing man is \_\_\_\_\_ to \_\_\_\_\_ c.c.

- 2** (A) Write any **three** out of six : **6**
- (1) Describe regeneration in coelenterate.
  - (2) Describe cro magnon man
  - (3) Explain significance of fertilization
  - (4) What is mortality and natality?
  - (5) Describe abiotic factor of grass land ecosystem.
  - (6) Explain signification of parthenogenesis.
- (B) Write any **two** out of six : **9**
- (1) Describe nitrogen cycle.
  - (2) Give structure and function of mammalian ovum.
  - (3) Explain types of parthenogenesis.
  - (4) Draw neat and labelled diagram of 48 hours chick embryo.
  - (5) Describe water pollution.
  - (6) Give detail on galapagoes island.
- (C) Write any **two** out of five : **10**
- (1) Discuss development of 72 hours chick embryo.
  - (2) Describe structure of mammary gland.
  - (3) Explain limb regeneration in urodela.
  - (4) Describe soil pollution.
  - (5) Oriental region.

- 3** (A) Write any **three** out of six : **6**
- (1) Draw neat and labelled diagram of cleavage process in chick embryo.
  - (2) Describe food chain of pond ecosystem.
  - (3) Factor affecting on regeneration.
  - (4) Volusia as oceanic island.
  - (5) Describe area pellucida.
  - (6) Significance of fertilization.
- (B) Write any **two** out of six : **9**
- (1) Describe structure and function of mammalian sperm.
  - (2) Describe carbon cycle
  - (3) Discuss placentation
  - (4) Give a note on green house effect
  - (5) Give a note on gastrulation process of chick embryo
  - (6) Type of regeneration
- (C) Write any **two** out of five : **10**
- (1) Explain energy flow
  - (2) Describe air pollution
  - (3) Give details of water cycle
  - (4) Describe histological types of placenta
  - (5) Explain java and packing man.
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