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E – 1660

Sixth Semester B.Sc. Degree Examination, April 2018
First Degree Programme under CBCSS
Core Course X
ZO 1642 – DEVELOPMENTAL BIOLOGY AND EXPERIMENTAL EMBRYOLOGY
(2013 & 2014 Admissions)

Time : 3 Hours

Max. Marks : 80

I. Answer **all** questions (**1** Mark **each**).

1) What is Germplasm theory ?
2) Distinguish between Animal pole and Vegital pole ?
3) What are hox genes ?
4) What is pleuripotency ?
5) Name Milk ejecting hormone.
6) Which hormone help on implantation ?
7) What do you mean by Teratogens ?
8) What is CVS ?
9) Constriction experiments was done by _____.
10) What is the importance of fertilization membrane ?

(1×10=10 Mars)

II. Answer **any eight** questions (**2** Marks **each**).

11) Give the structure of mature mammalian ovum.
12) Mention the significance of Parthenogenesis.
13) Mention the Physiological changes in Frog Metamorphosis.
14) What are spiral and Rotational cleavage ?
15) What is spermiogenesis ?
16) What is neurulation ?
17) What is blastocyst ?

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18) Comment on embryonic Induction.

19) How Nicotine act as a teratogen ?

20) What do you mean by test tube baby ?

21) What is fate map ?

22) Comment on Embryo transfer ? **(8×2=16 Marks)**

III. Answer **any six** questions (**4** Marks **each**).

23) What are egg membranes ? Explain.

24) Comment on cell lineage in planocera.

25) Explain Gastrulation in Amphioxus.

26) What is Primitive streak ? Mention its significance.

27) Draw and label human sperm.

28) Mention the functions of placenta ?

29) Sketch and label the typical hen's egg.

30) Explain mesoderm and coelom formation in Frog.

31) Explain the different stages of parturition ? **(6×4=24 Marks)**

IV. Answer **any two** of the following (**15** Marks **each**).

32) With the help of diagrams explain the development of Frog's Brain.

33) Explain the development and functions of extra embryonic membranes in chick.

34) Describe various kinds of placenta based on histological relationships.

35) Write an essay on parthenogensis. **(2×15=30 Marks)**

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