

UNIVERSITY OF EDUCATION
"UExam" Semester-V, 2023
BS Zoology, Session:2020-24

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Course Code: ZOOL3111
Subject: Developmental Biology

Time Allowed: 100 Minutes.

Max. Marks: 42

Section II (Short Answer)

Q.2- Write short answers of the following.

2x9 = 18

- i. Neurulation occurs in four stages enlist them.
- ii. What is spermiogenesis?
- iii. How liver develop during embryonic development.
- iv. Which are major cell adhesion molecules and what type of this molecule is?
- v. What are mechanisms to avoid polyspermy?
- vi. Any four examples of Growth Factors name them.
- vii. What are the major types of regeneration name them along with animals in which it occur.
- viii. Define morphogenesis?
- ix. What is Ingression?

Section III (Essay Type)

Answer the following Questions

8x3 = 24

Q.3:- Summarize the Neurulation process: Formation of Neural Tube

Q.4:- Define capacitation of sperm, how this process occur in mammals.

Q.5:- How male and female gonads develop during embryonic development from PGCs.