2021 M.Sc. First Semester CORE – 04 ZOOLOGY Course Code: MZOC 1.41 (Developmental Biology)

Total Mark: 70 Time: 3 hours Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1.	Discuss the cell fate and its mechanism of developmental commitment.		
		14	
2.	Explain the concept of organizer-induction and competence.	14	
	UNIT–II		
3.	Write a note on sperm development in male.	14	
4.	Write notes on:		
	(i) Characteristics of cleavages	7	
	(ii) Gastrulation and the three germ layers	7	
	UNIT–III		
5.	Describe the axis pattern formation in chick with representative diag	grams.	
		14	
6.	Write notes on:		
	(i) Development of brain in vertebrate	7	
	(ii) Morphallactic regeneration in hydra	7	

UNIT-IV

7.	Explain the estrous and menstrual cycle in female with neat labeled	
	diagrams.	14
8.	Write notes on:	
	(i) Adolescence and puberty	7
	(ii) Role of hormones	7

UNIT-V

9.	Explain the different contraceptive methods for both male and female.	14
10.	Write notes on:	
	(i) Teratogenesis and its agents	7
	(ii) Pregnancy	7