7.	(a)	Discuss the fate of different primary germ la organogenesis.	ayers in 5	
	(b)	Give a brief outline on the extra embryonic mem	brane in	
		mammals.	6	
8.	Defi	ne neurulation. Explain its development process in deta	il. 11	
SECTION—C				
9.	Explain the following:-			
	(i)	Ovulation		
	(ii)	Polyspermy		
	(iii)	Meroblastic and Holoblastic		
	(iv)	Branching Morphogenesis		
	(v)	Epiboly		
	(vi)	Cellular differentiation		
	(vii)	Embryonic induction		
	(viii)	De-lamination		
	(ix)	Invagination		
	(x)	Neural induction		
	(xi)	Primary embryonic induction		
	(xii)	Placenta		
	(xiii)	Types of organogenesis		
	(xiv)	Zona Pellicida		
	(xv)	Notogenesis	15×2=30	

Roll No	Total No. of Pages: 2
	1000111010110501

PC 11695-NH

AS/2111 DEVELOPMENTAL BIOLOGY—BTHB-1105T Semester-I

Time Allowed : Three Hours] [Maximum Marks : 74

Note :- Attempt *two* questions each from Section A and B. Section C is compulsory.

SECTION—A

- Define fertilization. Discuss the mechanism and types of fertilization in detail.
- 2. (a) Classify the eggs on the basis of amount of yolk. 5
 - (b) Differentiate between the spermatogenesis and oogenesis. 6
- 3. Define Blastulation. Discuss its types, process and mechanism. 11
- 4. Write a note on formation and differentiation of primary germ layers in embryonic induction.

SECTION—B

- 5. Give a details account on primary, secondary and tertiary embryonic induction.
- 6. Write a note on differential gene expression and determination. 11