This question	paper	contains 4 printed pages]			
		Your Roll No			
5118					
		B.Sc. (Prog.)/III	В		
L	S-302-	-DEVELOPMENTAL BIOLOGY AND			
		PHYSIOLOGY : ANIMALS			
	(Ad	Imissions of 2008 and Onwards)			
Time: 3 Hou	ırs	Maximum	Marks : 75		
(Write your Ro	ll No. o	n the top immediately: on receipt of this que	stion paper.)		
	Al	I the questions are compulsory.			
		Section A			
(Developmental Biology : Animals)					
1. (a)	Define	the following:	.4		
	(i)	Vitellogenesis			
	(ii)	Primitive streak			
	(iii)	Phylogeny			
	(iv)	Spermiogenesis.			

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(b)	Distinguish between the following:				
	(<i>i</i>)	PCT and DCT			
	(ii)	Haemopoiesis and Hemostasis			
	(iii)	Diabetes mellitus and Diabetes insipidus			
	(iv)	Acidosis and Alkalosis.			
(c)	Give	the location and function of the following:	4		
	(i)	β-cells of Islets of Langerhans			
	(ii)	Kupffer cells			
	(iii)	Juxtaglomerular cells			
	(iv)	Interstitial cells of Leydig.			
Describe the origin, excitation and conduction of impulses in					
heart.			12		
Or					
Discuss the hormonal control of digestion.					
Describe the histological changes and hormonal regulation of					
Menstrual cycle.					

2.

3.

Describe the molecular mechanism of Muscle contraction and its energy sources.

- 4. Write short notes on any three of the following: 4.4.4
 - (i) Osmoregulation by kidney
 - (ii) O₂-dissociation curves
 - (iii) Nerve-impulse conduction
 - (iv) Gastro-intestinal disorders.