(3 Hours) [Total marks 80] N.B: (1) All questions are Compulsory (2) Answer all sub questions together. (3) Draw neat labelled diagram wherever necessary. Q.1A) Answer the following 16M i. Define cardiac output. ii. Enlist the hormones that play an important role in female reproductive system. iii. The muscular wall of left ventricle is thickest as compare to other chamber of heart. Yes/No, justify. iv. Draw a neat labelled diagram of sperm. v. Write the composition of pancreatic juice. vi. Enlist the accessory digestive organ. vii. Write the difference between cortical nephron and juxtamedullary nephron. viii. Enlist the functions of kidney. Q.1B) Answer the following 4Mi. _____ layer of heart makes up about 95% of its part and is responsible for pumping action. ii. ______ is the site of sperm maturation, where they acquire motility and the ability to fertilize an ovum. iii. ______secrete Pepsinogen and gastric lipase. iv. are the contractile cells responsible for glomerular filtration. Q.2 A) Answer any **TWO** of the following 8M i. Explain the events of cardiac cycle. ii. Write about the conducting system of heart. iii. Write a short note on chemoreceptor and baroreceptor regulation of blood pressure. Q.2 B) Answer any **ONE** of the following 4M i. Write a note on Hypertension. ii. Write a note on angina pectoris. Q.3 A) Answer any **TWO** of the following 8M i. Write the composition of saliva with the function of each ingredient. ii. Draw a neat labelled diagram of stomach. iii. Explain the mechanical and chemical digestion in small intestine. Q.3 B) Answer any **ONE** of the following 4M i. Write a note on hepatitis. ii. Explain pathophysiology of Peptic ulcer.

60183 Page 1 of 2

Q.4 A) Answer any TWO of the following	8M		
Discuss the process of concentrated Urine formation. Explain renin-angiotensin-aldosterone system. i. Explain the mechanism of regulation of glomerular filtration rate.			
		Q.4 B) Answer any ONE of the following	4M
		i. Write a note on different types of renal calculi.	
ii. Write a note on glomerulonephritis.			
		Q.5 A) Answer any TWO of the following	8M
i. Enlist different phases of menstrual cycle. Explain post-ovulatory phase.	1991/1/V		
ii. Write a note on spermatogenesis.			
iii. Draw neat labelled diagram of ovary.			
Q.5 B) Answer any ONE of the following	4M		
i. Write a short note on infertility.	3,55		
ii. Write a short note on STD	200		
	6		
Q.6 A) Answer any TWO of the following	8M		
i. Write the difference between artery and vein.			
ii. Write the functions of liver.			
iii. Write a short note on capillary exchange			
Q.6 B) Answer any ONE of the following	4M		
i. Write a note on Oogenesis.			
ii. Draw a neat labelled diagram of tooth.			

60183 Page 2 of 2