	(3 Hours)	[Total marks 80]
<ul> <li>N.B.: (1) All questions are Compulsory</li> <li>(2) Answer all sub questions together.</li> <li>(3) Draw neat labeled diagram wherever n</li> </ul>	ecessary.	
<ul> <li>Q.1A) Answer the following</li> <li>i. Enlist heart valves.</li> <li>ii. Explain Stroke volume.</li> <li>iii. Differentiate between cortical and juxtamedulary</li> <li>iv. Write down composition and functions of saliva.</li> <li>v. Give three basic processes of nephron.</li> <li>vi. Enlist phases of female reproductive cycle</li> <li>vii. Enlist vital functions of liver and gallbladder</li> <li>Viii. Explain cephalic phase of digestion.</li> </ul>	-	16M
Q.1B) Answer the following i. The membrane that surrounds and protects the hea ii involves the maturation of spec- iii prevents filtration of blood cell through filtration membrane. iv. The consists of areolar conner-	ermatids into sperm. ls but allows all compon	ents of blood plasma to pass
Q.2 A) Answer <u>any <b>TWO</b></u> of the following i. Draw a normal ECG. Explain the significance of s ii. Write note on conduction system of heart. iii. Explain in detail structure of blood vessels.	segments and peaks.	8M
<ul> <li>B) Answer <u>any ONE</u> of the following</li> <li>i. Write a short note on cardiac arrhythmia.</li> <li>ii. Write the Pathophysiology of hypertension.</li> </ul>		4M
Q.3 A) Answer <u>any <b>TWO</b></u> of the following i. Discuss in detail functions of liver and add a note ii. Draw a neat labeled diagram of anatomy of Large iii. Give detail account on chemical digestion in sma	e intestine.	8M
<ul> <li>B) Answer <u>any <b>ONE</b></u> of the following</li> <li>i. Explain pathophysiology of reflux oesophegitis.</li> <li>ii. Write a short note on jaundice.</li> </ul>		4M
<ul> <li>Q.4 A) Answer any <b>TWO</b> of the following</li> <li>i. Discuss the process of reabsorption and secretion</li> <li>ii. Draw a neat labeled diagram of section of kidney</li> <li>iii. Give hormonal regulation of tubular reabsorption</li> </ul>	y and discuss funtions of	
B) Answer <u>any <b>ONE</b></u> of the following i. Write a note on urinary tract infection.		4M

ii. Write the Pathophysiology of kidney stone.

<ul> <li>Q.5 A) Answer <u>any <b>TWO</b></u> of the following</li> <li>i. Explain neural and hormonal regulation of blood pressure.</li> <li>ii. Explain mechanism of capillary exchange and comment on net filtration pressure.</li> <li>iii. Discuss in detail cardiac cycle.</li> </ul>	8M
<ul> <li>B) Answer any ONE of the following</li> <li>1. Write the Pathophysiology of Sexually transmitted diseases.</li> <li>2. Write a short note on infertility.</li> </ul>	4M
<ul> <li>Q.6 A) Answer any TWO of the following</li> <li>i. Enlist and discuss reproductive system ducts in male.</li> <li>ii. Write a note on oogenesis and follicular development.</li> <li>iii. Draw a neat labeled diagram of testis</li> </ul>	8M
<ul> <li>Q.6 B) Answer <u>any <b>ONE</b></u> of the following</li> <li>i. Write a note on electrolyte in body fluid.</li> <li>ii. Write a note on fluid compartments and fluid balance.</li> </ul>	4M

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