# Paper / Subject Code: 65203 / Antomy, Physiology & Phathophysiology-III

(3 Hours)

[Total marks 80]

# N.B.: (1) **All** questions are **Compulsory**

- (2) Answer all sub questions together.
- (3) Draw neat labeled diagram wherever necessary.

#### Q.1A) Answer the following

16M

- i. Define "tachycardia" and bradycardia".
- ii. Explain the significance of segments and peaks in normal ECG.
- iii. Draw neat labeled diagram of urinary system.
- iv. What is deglutination?
- v. Explain Glomerular filtration Rate (GFR).
- vi. Explain functions of sertoli cells.
- vii. Enlist vital functions of liver.
- Viii. Enlist phases of digestion.

#### Q.1B) Answer the following

4M

Descending limb of Loop of Henle	A. 70 ml
2. Ascending limb of Loop of Henle	B. Na <sup>+</sup> -K <sup>+</sup> -2Cl <sup>-</sup> symport
3. Strok Volume	C. Permeable to water
4. End diastolic volume	D. 130 ml

# Q.2 A) Answer any **TWO** of the following

8M

- i. Explain cardiac cycle.
- ii. Explain Mean Arterial Blood pressure and factors affecting MABP.
- iii. Explain in detail different layers of heart wall.

# Q.2 B) Answer any **ONE** of the following

4M

- i. Write a short note on Angina pectoris.
- ii. Explain "Action Potential" of Heart muscle.

#### Q.3 A) Answer any **TWO** of the following

8M

- i. Discuss in detail mechanical digestion in small intestine.
- ii. Draw a neat labeled diagram of Section of Liver.
- iii. Give detail account on glands found in stomach and their functions.

# Q.3 B) Answer any **ONE** of the following

4M

- i. Write note on Digetion of fat.
- ii. Write a note on Peptic ulcer.

#### Q.4 A) Answer any **TWO** of the following

8M

- i. Discuss the process of Urine formation.
- ii. Draw a neat labeled diagram of filtration membrane and discuss funtions of kidneys.
- iii. Give hormonal regulation of tubular reabsorption and secretion.

#### 60182

# Paper / Subject Code: 65203 / Antomy, Physiology & Phathophysiology-III

Q.4 B) Answer any <b>ONE</b> of the following	4N
i. Write a note on chronic renal faliure.	
ii. Explain renin-angiotensin-aldosterone system.	
Q.5 A) Answer any <b>TWO</b> of the following	8 <b>N</b>
i. Explain hormonal regulation of menstrual cycle.	949,000
ii. Explain stages of spermatogenesis.	3,000
iii. Draw neat labeled diagram of ovary.	
Q.5 B) Answer any <b>ONE</b> of the following	4N
i. Write a short note on infertility.	
ii. Write a short note on Dysmenorrhea.	
	50 67 25
Q.6 A) Answer any <b>TWO</b> of the following	8N
i. Explain in detail fluid compartments and fluid balance.	3000
ii. Write a note on various secretions of digestive system.	5
iii. Explain conducting system of heart.	
Q.6 B) Answer any <b>ONE</b> of the following	4M
i. Write a note on oogenesis.	
ii. Write a note on electrolyte in body fluids.	

60182 Page 2 of 2