

Seat Number

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प्रांगण - 042

S-16

T-2.3.5 : APHE - II
Anatomy Physiology & Health Education - II
(2350)

P. Pages : 2

Time : Three Hours

Max. Marks : 80

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Answers of both sections should be written in same answer book.

SECTION - I

1. Attempt **any five** of the following. 10
 - a) What is net filtration pressure, give its normal value.
 - b) How Anti-Diuretic Hormone maintains the water balance
 - c) Give composition of urine.
 - d) Write the causative organism for
 - 1) Tuberculosis
 - 2) Leprosy
 - 3) Syphilis
 - 4) Whooping cough
 - e) Enlist different layers of urinary bladder.
 - f) Differentiate between Arteries and Veins.
 - g) What are Atrio-ventricular valves.
2. Attempt **any four** of the following. 20
 - a) What is Electrocardiogram. Discuss different waves of ECG with their significance.
 - b) Write note on Internal structure of kidney.
 - c) Explain Etiology, Pathogenesis and prevention of malaria.
 - d) Explain how kidney maintains water balance.
 - e) Discuss first aid treatment for snake bite
 - f) Explain how calcitonin and parathyroid hormone maintains calcium balance and blood pressure.

3. Solve **any one**.

- a) Define blood pressure and its types. Discuss how Renin, Angiotensin Aldosterone system controls blood pressure. 10
- b) i) Enlist functions of urinary system. 5
- ii) Add a note on conduction system of Heart. 5

SECTION - II

4. Attempt **any five** of the following. 10

- a) Give any four functions of Stomach.
- b) What is semen, give its composition.
- c) Enlist composition of saliva with functions of each.
- d) Enlist any four functions of oestrogen.
- e) Draw a well labelled diagram of Digestive system.
- f) What is the effect of parasympathetic and sympathetic nerve stimulation on bronchial smooth muscles.
- g) Enlist the functions of Exocrine part of pancreas.

5. Attempt **any four** of the following. 10

- a) Draw a well labelled diagram of sperm cell. Explain the process of spermatogenesis.
- b) Explain physiology of Respiration.
- c) Explain in detail basic structure of Alimentary canal.
- d) Draw a well labelled diagram of liver and give its functions.
- e) Explain structure and functions of small intestine.
- f) Explain role of hormones in contraception.

6. Solve **any one**. 10

- a) Draw a well labelled diagram of female Reproductive system. Add a note on ovarian cycle.
- b) Draw a well labelled diagram of Respiratory system. Discuss role of Hb in transport of O_2 & CO_2 .
