	Utech
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Invigilator's Signature :	

# CS/B.PHARM(NEW)/SEM-3/PT-305/2009-10 2009

# ANATOMY PHYSIOLOGY AND HEALTH EDUCATION

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

### **GROUP - A**

# ( Multiple Choice Type Questions )

l.	Choose the correct	et alternatives	tor an	y ten of	the following:
					$10 \times 1 - 10$

- i) Non-nucleated blood cells are
  - a) immature RBC
- b) mature RBC
- c) platelets
- d) both (b) and (c).

- ii) Dyspnoea is
  - a) painful respiration
  - b) cheerful respiration
  - c) funny respiration
  - d) under water respiration.

33123 [Turn over

#### CS/B.PHARM(NEW)/SEM-3/PT-305/2009-10 iii) Glucose is stored in the form of Glycogen Fatty acid b) a) c) Amino acid d) Glycerol. Which of the following is a permanent contraceptive iv) method for male? a) Barrier method b) IUD **Tubectomy** Vasectomy. c) d) Which of the following is contractile protein? v) Albumin Actin a) b) c) Serotonin d) None of these. Universal donor is the individual with blood group vi) В a) Α b) c) ABd) Ο. Structural and functional unit of the nervous system is vii) Nephron a) b) Neuron Spinal Cord. c) Brain d) viii) Bile pigments are

b)

d)

Biliverdin

None of these.

33123 2

Bilirubin

All of these

a)

c)



- ix) The proteolytic enzyme present in gastric juice is
  - a) Pepsin
- b) Trypsin
- c) Ptyalin
- d) Maltase.
- x) The lymphatic organs are concerned with the production and maturation of
  - a) W. B. C.
- b) R. B. C.
- c) Rod cells
- d) Goblet cells.
- xi) Histamine is released from
  - a) mast cells
- b) platelets
- c) cancer cells
- d) brain.
- xii) Packed cell volume is
  - a) the volume of red cells in 1 litre or 1 mm <sup>3</sup> of whole blood.
  - b) the volume of red cells in 2 litres or 2 mm  $^3$  of whole blood.
  - c) the volume of red cells in 3 litres or 3 mm <sup>3</sup> of whole blood.
  - d) the volume of red cells in 4 litres or 4 mm <sup>3</sup> of whole blood.

33123 3 [ Turn over

# CS/B.PHARM(NEW)/SEM-3/PT-305/2009-10



# (Short Answer Type Questions)

Answer any three of the following.



- 2. What is E.S.R. ? Mention its importance significance and normal value.
- 3. Write short notes on simple epithelial tissue & cardiac muscle tissue.
- 4. Write briefly about the composition of blood.
- 5. Explain the physiology of synaptic transmission.
- 6. Outline the important first aid features for burn therapy.

#### GROUP - C

# (Long Answer Type Questions)

Answer any *three* of the following.  $3 \times 15 = 45$ 

- 7. Describe the stages of Erythropoieses. What factors are responsible for Erythropoieses? 5 + 10
- 8. Write short notes on:

 $3 \times 5$ 

- i) Emergency treatments in poisoning case.
- ii) Cardiopulmonary resuscitation (CPR).
- iii) Snake bite.
- 9. Define and classify muscle. Differentiate them by focusing on their anatomy, physiology. Explain the physiology of muscle contraction.
- 10. Define lymph with the functions of lymphatic system. Explain the structure and function of spleen with a neat labelled diagram. Explain any two disorder of lymph node.
- 11. Define causative agents, mode of transmission and prevention of influenza, leprosy and AIDS.

33123