



Name :

Roll No. :

Invigilator's Signature :

**CS/B.PHARM (Old)/SEM-3/PT-305/2009-10
2009**

PHYSIOLOGY

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)

1. Choose the correct alternatives of the following :

10 × 1 = 10

- i) In resting state flowing of blood through a kidney per minute is approximately
- a) 200-300 ml per min
 - b) 400-500 ml per min
 - c) 1200-1300 ml per min
 - d) 5000-6000 ml per min
 - e) none of these.
- ii) Glomerular filtration pressure is
- a) 15 mm of Hg
 - b) 25 mm of Hg
 - c) 35 mm of Hg
 - d) 65 mm of Hg
 - e) 100 mm of Hg.

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[Turn over



- iii) The normal glomerular filtration rate is approximately
- a) 20 ml per min b) 50 ml per min
c) 120-125 ml per min d) 300 ml per min
e) none of these.
- iv) The anti-diuretic hormone (ADH) is secreted by
- a) Renal cortex b) Renal medulla
c) Anterior pituitary d) Posterior pituitary
e) None of these.
- v) Average weight of the pituitary gland is
- a) 0.1 gm b) 0.5 gm
c) 1.0 gm d) 5.0 gm
e) 1.0 gm.
- vi) Atrophy of the anterior pituitary in infants and children produces
- a) Dwarfism b) Gigantism
c) Acromegaly d) Mongolism
e) all of these.
- vii) Secretion of Parathormone is controlled by
- a) Anterior pituitary b) Posterior pituitary
c) Hypothalamus d) Blood calcium level
e) all of these.
- viii) Features of hypoglycaemia include
- a) Tremors
b) Flushing, polar and perspiration
c) Delirium, coma and convulsion
d) Loss of deep reflex
e) All of these.



- ix) Glucagon is secreted by α cells of the islets of langerhans
- It is polypeptide in nature
 - It has been synthesized in laboratory
 - It is also present in mucosa of stomach and duodenum
 - Its mode of action is unknown
 - It is polysaccharide in nature.
- x) Melatonin is a hormone secreted by
- Anterior pituitary
 - Posteror pituitary
 - Hypothalamus
 - Pineal body
 - Sympathetic nerve endings.

GROUP – B

(Short Answer Type Questions)

Write short notes of the following. $3 \times 5 = 15$

- Blood group
- Platelets
- Coagulation of blood.

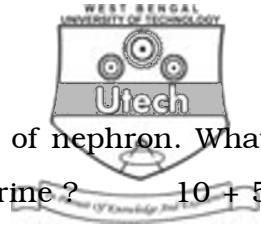
GROUP – C

(Long Answer Type Questions)

Answer the following. $3 \times 15 = 45$

- Write the structure, function, deficiency diseases of haemoglobin. What do you mean by haemolysis ? Describe the process in brief. $8 + 7$

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6. Write in brief the structure and functions of nephron. What are the factors affecting the formation of urine ? 10 + 5
7. Why is blood called connective tissue ? Write about the physiological properties, composition and function of blood.

2 + 13

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