



Name :

Roll No. :

Invigilator's Signature :

CS/B.Pharm (NEW)/SEM-2/PT-205/2010

2010

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 for any *ten* of the following :

10 × 1 = 10

- i) Non-nucleated blood cells are
 - a) immature RBC
 - b) mature RBC
 - c) platelets
 - d) both (b) and (c).
- ii) Which part of heart has fastest conduction ?
 - a) AV node
 - b) His bundle
 - c) Purkinje fibre
 - d) SA node.
- iii) Dyspnoea is
 - a) painful respiration
 - b) cheerful respiration
 - c) funny respiration
 - d) under water respiration.
- iv) Main characteristic of nephritic syndrome is
 - a) marked urea excretion
 - b) hypertension
 - c) both of these
 - d) none of these.

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[Turn over



- x) Packed cell volume is
- a) the volume of red cells in 1 litre or 1 mm^3 of whole blood
 - b) the volume of red cells in 2 litres or 1 mm^3 of whole blood
 - c) The volume of red cells in 3 litres or 1 mm^3 of whole blood.
- xi) Kupffer cells are present in
- a) lungs
 - b) pancreas
 - c) liver
 - d) small intestine.
- xii) Korotkov's sounds appear while measuring
- a) BP
 - b) Pulse
 - c) Cardiac output
 - d) all of these.
- xiii) Horse-shoe shaped nucleus of WBC seen in Leishmann stain smear is characteristic of
- a) Neutrophil
 - b) Eosinophil
 - c) Basophil
 - d) all are correct.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. Describe briefly the structure of nephron.
3. What is a Spirogram ? Explain Vital Capacity, Tidal Volume and Inspiratory Reserve volume with their normal magnitudes. $2 + 1 + 1 + 1$
4. What is glycosuria ? Write briefly about the composition of urine. $2 + 3$

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5. What are the hormones of posterior pituitary gland? Briefly discuss their functions.
6. What is normal life span of life of Red Blood Corpuscle ?
What is the normal count ?

GROUP – C

(Long Answer Type Questions)

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

7. What is blood pressure ? Enumerate and discuss the factors concerned in maintaining the normal blood pressure. $2 + 13$
8. a) Write about anatomical position and functions of thyroid gland.
b) Write briefly about thyroid gland disorders. $2 + 8 + 5$
9. Explain the mechanism of Respiration. Briefly enumerate the process of gaseous exchange during respiration. $10 + 5$
10. What is the relation between cardiac output and heart rate ?
How is rate of firing of SA node controlled ? Discuss in detail the events of Cardiac cycle. $2 + 3 + 10$
11. Describe the anatomy of liver along with a neat labelled diagram. Write down the functions of the liver.

