



Name :

Roll No. :

Invigilator's Signature :

**CS/B.Pharm (NEW)/SEM-3/PT-305/2011-12
2011
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)

1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10

i) Trapezius is muscle of

- | | |
|---------|----------|
| a) face | b) arm |
| c) neck | d) back. |

ii) After birth erythrocytes are formed in

- | | |
|--------------------|-------------|
| a) red bone marrow | b) yolk sac |
| c) spleen | d) liver. |

iii) What is the normal volume of anatomical dead space air ?

- | | |
|------------|------------|
| a) 2200 ml | b) 240 ml |
| c) 150 ml | d) 500 ml. |

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[Turn over



- iv) The cells of pancreas that produce glucagon are
- a) alpha cells b) beta cells
c) aciner cells d) gamma cells.
- v) The bone of nasal septum is
- a) Atlas b) Humerus
c) Vomar d) none of these.
- vi) Malaria is a infection.
- a) Bacterial b) Viral
c) Protozoal d) Helminth.
- vii) Structural and functional unit of nervous system is
- a) Nephron b) Neuron
c) Brain d) Spinal cord.
- viii) HIV is the name of a
- a) bacteria b) disease
c) virus d) fungus.
- ix) T-lymphocytes mature in the
- a) bone marrow b) thymus gland
c) spleen d) thyroid.
- x) The cells which support the neurons are
- a) glial cells b) Schwanan cell
c) goblet cell d) none of these.
- xi) A muscle is attached to a bone by a
- a) tendon b) ligament
c) periosteum d) cartilage.
- xii) A plasma protein which is present in highest concentration in blood is
- a) albumin b) globulin
c) fibrinogen d) prothrombin.

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GROUP – B

(Short Answer Type Questions)

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

2. Write a short note on the emergency treatment of snake bite.
3. What is ESR ? Mention its significance and normal value.
4. Explain the physiology of synaptic transmission.
5. Write down the functions of bone.
6. What is muscle fatigue ? Why is it caused and how can it be normalized ?

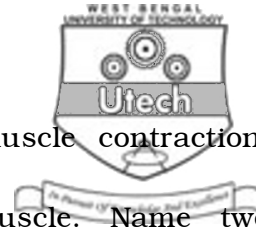
GROUP – C

(Long Answer Type Questions)

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

7. What do you mean by lymph ? Describe the composition and the main function of lymph. Write down the structure and functions of the typical lymph node. $3 + 5 + 7$
8. What is MTP ? Discuss in detail the conditions where MTP can be performed. Who can perform it ?

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9. Describe in brief the mechanism of muscle contraction.

Discuss the properties of skeletal muscle. Name two disorders of skeletal muscle.

4 + 6 + 5

10. Name the causative organism, mode of transmission and prevention of Malaria, Tuberculosis and Diphtheria.

$(1\frac{1}{2} + 1\frac{1}{2} + 2) \times 3$

11. a) Discuss the mechanism of respiration.

b) Write briefly about the structure and functions of the liver.

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