

Invigilator's Signature : .....

# CS/B.Pharm(N)/SEM-3/PT-305/2012-13 2012

## **ANATOMY PHYSIOLOGY & 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 :  $10 \times 1 = 10$ 
  - i) Megaloblastic anaemias occur due to
    - a) Iron deficiency
    - b) Vitamin  $B_{12}$  deficiency
    - c) Bone marrow failure
    - d) Genetic abnormalities.
  - ii) Villus is present in the
    - a) small intestine b) large intestine
    - c) stomach d) all of these.

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- iii) Dyspnea is
  - a) painful respiration
  - b) cardiac pulmonary respiration
  - c) under water respiration
  - d) funny respiration.
- iv) Glucose is stored as
  - a) Falty acid b) Glucagon
  - c) Glycogen d) Glycerol.
- v) Normal value of vital capacity is
  - a) 4800 ml b) 500 ml
  - c) 6000 ml d) 1200 ml.
- vi) Space between dendrites and cell body of next neuron is known as
  - a) Synaptic knob b) Synaptic cleft
  - c) Synaptic vesicles d) Synaptic membrane.
- vii) Humoral immunity is mediated by
  - a) *T*-lymphocytes b) Macrophages
  - c) *B*-lymphocytes d) Natural killer cells.

viii) Which of the following is a muscle contractile protein ?

- a) Serotonin b) Albumin
- c) Troponin d) Melanin.

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	ix)	x) Pancreas is a / an				
		a)	Exocrine gland	b)	Endocrine gland	
		c)	Mixed gland	d)	Digestive gland.	
	x)	x) Histamine is released from				
		a)	Mast cells	b)	Platelets	
		c)	Cancer cells	d)	Brain.	
	xi)	xi) The largest lymph organ is				
		a)	Lungs	b)	Spleen	
		c)	Kidney	d)	Stomach.	
	xii)	xii) All of the following diseases are caused by virus, <i>except</i>				
		a)	Chicken pox	b)	Measles	
		c)	Poliomyelitis	d)	Diphtheria.	
	GROUP – B(Short Answer Type Questions )Answer any three of the following. $3 \times 5 = 15$					
2.	Explain the mechanism of skeletal muscle cantraction.					
3.	Point out the important First Aid features for burn therapy.					
4.	Write a short note on connective tissue.					
5.	Briefly discuss the structure and function of the respiratory					
	tract.					
6.	Wha	What are the main functions of neutrophils and monocytes ?				

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Write a brief note on Rh-factor.

2 + 3



**GROUP – C** (**Long Answer Type Questions**) Answer any *three* of the following.  $3 \times 15 = 45$ 

- 7. Write a note on hazards of blood transfusion. Discuss the intrinsic and extrinsic pathway of blood coagulation. Write a note on clotting factors. 5 + 7 + 3
- 8. Write down the causative agent, mode of transmission and prevention of any *three* of the following diseases : 5 + 5 + 5
  - a) Measles
  - b) Poliomyelitis
  - c) Tuberculosis
  - d) AIDS.
- 9. Describe the structure of a myelinated nerve cell. Explain the mechanism of nerve impulse conduction. 5 + 10
- 10. Write down the anatomical position, structure and functions of the following parts of the gastrointestinal tract :

 $(1+2+2) \times 3$ 

- a) Liver
- b) Pancreas
- c) Stomach.
- 11. Write short notes on any *three* of the following : 5 + 5 + 5
  - a) Synovial joints
  - b) Peptic ulcer
  - c) ABO system of blood grouping
  - d) Bile salts
  - e) Treatment of shock.

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