C763

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## SARDAR PATEL UNIVERSITY M.Sc. H.Sc. II Semester (A.T.K.T)

External Theory Examination

Date: 4/12/2012, Tuesday, Time: 10.30 a.m to 1.30 p.m PH02CFDN01: Physiology and Clinical Biochemistry

Total Marks: 70

(8)

## Q.I Choose the correct answer from the given options:

- (i) Cytotoxic cell is a .....
  - (a) Monocyte
  - (b) Lymphocyte
  - (c) Basophil
  - (d) Eosinophil
- (ii) A process by which the leukocytes squeeze through the capillaries...
  - a) Chemotaxis
  - b) Diapedesis
  - c) Pagocytosis
  - d) Ameboid movement
- (iii) ADH is secreted by .....
  - (a) Adrenal cortex
  - (b) Posterior pituitary
  - (c) Kidney
  - (d) Inferior pituitary
- (iv) The hormone responsible for milk ejection (let down) process...
  - (a) Oxytocin
  - (b) Estrogen
  - (c) Prolactin
  - (d) Progesterone
- (v) Kupffer cells are present in...
  - a) Heart
  - b) Kidneys
  - c) Liver
  - d) Lungs
- (vi) WBC's that have a role in hypersensitivity reactions...
  - a) Eosinophils
  - b) Neutrophils
  - c) Basophils
  - d) Monocytes
- (vii) Normal total protein concentration in blood is...
  - a) 7.3gm%

(P.T.O)

b) 8.5gm%	
c) 9.2gm%	
d) 9.0gm%	
(viii) Erythropoetin is secreted from	
a) Pancreas	
b) Adrenal Cortex	
c) Kidneys	
d) Heart	
Q-II Answer the following (any seven)	(14)
(1) What is inflammation?	
(2) How is ESR measured?	
(3) Enlist the functions of plasma protein.	
(4) Write about the active transport of glucose in proximal tubule.	
(5) What is vital capacity?	
(6) What is chemotaxis?	
(7) Write the functions of platelets?	
(8) Give the functions of memory cells?	
. (9) What is the extrinsic pathway of clotting of blood?	
Q III Answer in detail (any three)	(12)
(1) Explain the process of phagocytosis.	
(2) What are macrophages? Explain their functions in detail.	
(3) Write in detail about antibodies.	
<ul> <li>(4) Explain the functions of reticuloendothelial system.</li> </ul>	
(5) Explain the genesis of RBC.	
Q IV Explain (any three)	(12)
(1) ECG	
(2) The heart valves.	
(3) Different types of blood pressure	
(4) Structure of artery	
Q V Answer in brief (any four)	2002
(1) Write about the factors that determine the GFR.	(12)
(2) Explain the functions of kidneys.	
· · · · (3) Explain the functions alveoli and trachea.	a agrag
(4) Write in detail about the reabsorption and secretion taking place in	loop of henie.

(5) Enumerate the important functions of respiratory passageways.

## Q.VI Write a short note on (any four)

(12)

- (1) Sickle cell anemia
- (2) Functions of blood
- (3) Polycythemia
- (4) Hormones secreted by thyroid gland
- (5) Pulmonary volumes
- (6) Immunity

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