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School of Pharmacy

Knowle	dge Resource & Relay Ce	ntre (KRRC)	
AIKTC/KRRC/SoP/ACI	2019-20 (N/QUES/2018-29/	Date:	
School: <u>SoP-CBCS</u>	Branch: <u>SoP</u>	SEM:I	

To, Exam Controller, AIKTC, New Panyel.

Dear Sir/Madam,

IR@AIKTC

Received with thanks the following Semester/Periodic question papers from your exam cell:

Sr. No.	Subject Name	Subject Code	Format		No. of
			SC	HC	Copies
1	General Chemistry	BPH C 101_T	N.S.	-	-
2	Dispensing and Community Pharmacy	BPH_C_102_T	EV	$\checkmark$	02
3	APP-1	BPH_C_103_T	N. I	/	02
4	Biochemistry - I	BPH_C_104_T		~	02
5	Communication Skills and Ethics (NUES)	BPH_G_105_T		-	~
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Note: SC - Softcopy, HC - Hardcopy

(Shaheen Ansari) Librarian, AIKTC

RegAIRTC       Sem -1       CBCS       IS $[1]$ [1]       aiktodspace.org         [Time: - 3 Hours]       [Marks: 80]         Please check whether you have got the right question paper       N.B. (1) All questions are compulsory       (2) Figures to the right indicate full marks.         1. a) Give the classification of various routes of administration       2         ob Explain the terms Compounding and Dispensing       2         c) Describe Bulk dispensing of proprietary medicines       2         d) Calculate the amount of drug X required to make 50 ml of paediatric solution given that each Sml of the solution has dose for a 5 year old child.       2         (Aduit dose of drug X is 2mg)       2       2         e) "Shake well before use" should be printed on Emulsion labels. Justify       2         f) During preparation of suppositories overheating of cocco butter should be avoided, Give reason       2         g) Differentiate between Tablet triturates and Pills       2         h) How to overcome the incompatibility of immiscibility       2         i) Discuss in detail the ments and demerits of any two routes of administration       4         b) Explain the tests for Identifying Emulsion type       4         3. a) Write a note on pricing and recording of prescriptions       4         b) Explain in detail various gelling agents       4         a) Discuss about suspending agents from na	P	aper / Subject Code: (	66302 / Dispe	encing And Community	Pharmacy
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### Paper / Subject Code: 66302 / Dispencing And Community Pharmacy

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2

 a) Send 150 ml of a 1 in 25 potassium permanganate solution and state the labelling directions to prepare 2 litres of a 1 in 4000 solution

#### OR

How much (ml) of a 17%w/v concentration of Benzalkonium chloride should be used in preparing 300ml of stock solution such that 15ml diluted to I L will yield 1:5000 solution

- c) i) Give the causative agent, mode of transmission and prevention of any two Communicable diseases
  - ii) What is a balanced diet and name any two deficiency disorders



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04

08

04

08

Paper / Subject Code: 66303 / Anatomy, Physiology & Pathophysiology -I

16/12/19 Sem-I CBCS

### (3 HOURS)

[ Total Marks: 80]

N.B.: 1) All questions are compulsory

2) Figures to the right indicate full marks

3) Draw neat, labeled diagrams wherever necessary.

## Q 1 a) Answer the following

i) Define positive feedback mechanism of homeostasis.

ii) What is pinocytosis.

iii) Give location and function of Areolar connective tissue.

iv) Enlist the components of lymphatic system.

v) Give role of: a) Prothrombinase (b) Erythropoietin.

vi) Enlist the cardinal signs of Inflammation,

vii) Define hypersensitivity reactions and enlist the types of the same,

viii) Write the classification of muscles.

## B Answer the following

i) Enlist any two examples body fluids.

ii) Deficiency of which nutrients cause megaloblastic anemia.

iii) Enlist clotting factors involved in blood coagulation via intrinsic pathway.

iv) Holding a book with stretched hand in steady position is type of contraction.

# Q.2. a) Answer Any TWO of the following

i) Write a short note on Life Cycle of RBC.

ii) Classify White Blood Cells (WBCs). Name the respective conditions in which Neutrophil and Eosinophill count increases.

iii) Describe Hemostasis and explain the process of platelet plug coagulation in detail."

# b) Write a short note on Any ONE of the following

i) Hemolytic Disease of newborn.

ii) Thrombocytopenia and leucopenia.

# Q.3. a) Answer Any TWO of the following

i) Describe sliding filament mechanism of skeletal muscle contraction.

ii) Describe in detail Neuromuscular Junction.

iii) Distinguish between skeletal muscle and smooth muscle.

### Page 1 of 2

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Paper / Subject Code: 66303 / Anatomy, Physiology & Pathophysiology -I

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04 b) Answer Any ONE of the following i) Write a note on energy metabolism in skeletal muscle. ii) Draw a neat, labeled diagram showing organization of skeletal muscle 04 Q.4. a) Answer any ONE of the following i) Enlist primary and secondary lymphatic organs and discuss their functions. ii) Discuss anatomy and functions of spleen. 04 b) Write a note on ANY ONE of the following i) Rheumatoid arthritis. ii) Myasthenia Gravis. 04c) Answer any ONE of the following i) Draw a neat labeled diagram of Stratified squamous epithelium, discuss their location and functions . ii) Write a short note on Extracellular Matrix of connective tissue. 04 Q 5 a) Answer any ONE of the following i) Write a detail account on passive transport mechanism across membrane ii) Draw a neat labeled diagram of fluid mosaic model of cell membrane. 04 b) Answer any ONE of the following Explain various types of skeletal muscle contraction with suitable examples. ii) Explain the process of smooth muscle contraction. 04 c) Answer any ONE of the following i) Compare and Contrast between Acute and Chronic type of Inflammation. ii) Discuss the process of chemotaxis. 08 Q 6 a) Answer any TWO of the following i) Explain the concept of ABO blood grouping system and add a note on Rh factor. ii) Explain in detail about anaphylaxis. iii) Write a note on cell mediated immunity. 04 b) Answer any ONE of the following i) Discuss the outcomes of acute and chronic inflammation. ii) Discuss various vascular changes during inflammation.

Page 2 of 2

## Paper / Subject Code: 66304 / Biochemistry-I

R@AIKTC	

SEM-I CBSS 20/12/19

N.B.: All questions are compulsory

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I

12	L. common	
10	hours)	

**Total Marks: 80** 

Q. 1 a) Draw the structure of a- D galactose using Haworth projection formula	
b) Draw the structure of D-xylose using Fischer projection formula	
c) Give the name and three letter code for sulphur containing amino acid	
d) What is catabolism?	
e) Define Vitamin	
f) Give two examples of storage polysaccharide	
g) Name the pyrimidine nitrogenous bases	
h) Give the name and structure of coenzyme of Vitamin B1	
i) Differentiate between $\alpha$ -anomer and $\beta$ - anomer	
j) Draw the structure of lecithin	
k) Draw the structure of dTMP	
1) Deficiency of Vitamin-A leads to	
m) Give the name and structure of amino acids containing amide linkage	
n) Enlist the functions of protein	
o) Give the name and structure of $18:2(\Delta^{9, 12})$	
p) Explain epimers with suitable example R (1997), TErry	
p) explain epiners with suitable example.	
Q. 2 a) Explain the secondary structure of proteins	
b) Explain FADH <sub>2</sub> as energy carrier	
c) Discuss the biochemical role of Vitamin B <sub>3</sub>	
d) Differentiate between nucleoside and nucleotide	
e) Give the role of bile salt in digestion and absorption of lipids.	
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Q. 3 a) Write a note on Starch	
b) Explain the double helix structure of DNA	
c) Write a note on biochemical role of Vitamin- D	
d) Explain the terms Entropy and Enthalpy	
e) Comment on conversion of glucose to energy in RBCs	
e) comment on conversion of glueose to energy in RDCs	
Q. 4a) Classify amino acids based on their structures with examples	
(No structures required)	
b) Write a note on sphingophospholipids	
c) Give the structure and significance of Vitamin-Bo	
d) Discuss the biochemical role of Vitamin-B5 or Vitamin-B2	
e) State the first law of thermodynamics	
Q. 5 a) Write a note on Vitamin- B6 or Vitamin- B12	
b) What are disaccharides? Explain inversion of sucrose	
c) Write a note on Ascorbic acid or Vitamin- B7	
d) Draw the structure of Arachidonic acid	
e) Give the salient features of digestion of protein	
Q. 6 a) Give an account on higher order packaging of DNA	
b) Write a short note on Vitamin-E or Vitamin-K	
c) How is standard free energy change related to equilibrium constant?	
d) Differentiate between fats and oils	
e) Define Acid value and Iodine value	
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