

School of Engineering & Technology

KALSEKAR TECHNICAL CAMPUS

School of Pharmacy

Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoP/ACKN/Q	OUES/2017-18/	Date: 31/12/18
THIS CHARLES OF THE SERVICE	025,201, 10,	
School: SoP-CBSGS	Branch: SoP	SEM: <u>III</u>
То,		
Exam Controller,		
AIKTC, New Panvel.		
Door Sir/Modom		
Dear Sir/Madam,	ATKT	
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Received with thanks the following **Semester/Periodic** question papers from your exam cell:

Sr.	Subject Name	Subject Code	Format		No. of
No.			SC	HC	Copies
1	Organic Chemistry-I				
2	Biochemistry-II		-	/	02
3	Dispensing Pharmacy				
4	Pharm. Engg.				
5	APP-III				
6	Pharm. Math.				

Note: SC - Softcopy, HC - Hardcopy

(Shaheen Ansari) Librarian, AIKTC

Paper / Subject Code: 65102 / Biochemistry-II

SEM-III CBSGS

(3 hours)

QP Code: 27947
Total Marks: 70

	N.B.: All questions are compulsory	
1. Ans	swer the following	
a)	Draw the structure of GMP	1
b)	Enlist the components of ETC	1
c)	Name the shuttle which transports reducing equivalent from cytosol to	
	mitochondrial matrix	1
d)	Give the net ATP yield after oxidation of palmitic acid	1
e)		1
f)	Name two drugs which inhibits HMG CoA reductase	2
g)	그 사람들은 그 그 그 그 사람들이 가장 그는 사람들이 가장 하는 것이 되었다. 그리고 그는 그를 가장 하는 것이 되었다. 그런 그런 그런 그를 모르는 것이다.	2
	Name two drugs inhibiting protein synthesis	2
i)	Calculate total ATPs formed when two molecules of acetyl CoA are consumant.	
j)	TCA cycle Name two drugs inhibiting DNA replication	2 2
3)	Name two drugs inmotting DNA replication	
2. a) C	Give the names and structures of the substrate and product for the following	
enz	symatic reactions (any 2)	4
	i) pyruvate dehydrogenase complex	
	ii) Xanthine oxidase	
	iii) β- Ketoacyl ACP reductase	
b) Wri	ite structures of given substrate and product with name of the enzyme catalysi	ng the
re	action (any 2)	4
	i) oxaloacetate to phoshoenolpyruvate	
	ii) adenylosuccinate to AMP	
	iii) Acetoacetyl CoA to HMG CoA	
c) Dra	w schematic representation of DNA replication in prokaryotic cell	3
3. a) [Describe <i>de novo</i> synthesis of CTP	4
A	Discuss post transcriptional modification in eukaryotes	4
	live the significance of telomeres and telomerase inhibitors	3
		3
4. a) I	Distinguish between oxidative and substrate level phosphorylation	4
A 198	Differentiate between prokaryotic and eukaryotic translation	4
	Explain Sanger dideoxy method for DNA sequencing	3
5 a) V	Vrite a note on glycogenolysis	4
	Explain the energy generation phase of glycolysis	4
	ifferentiate biosynthesis and β - oxidation of fatty acid	3
	Vrite a note on Salvage pathway and give it significance	3
1 1 1 1	Compare biosynthesis with chemical synthesis of peptides	3
The state of the s	Sive steps for synthesis of mevalonate	3
d) D	Describe role of proteases and peptidases	2