

www.FirstRanker.com

www.FirstRanker.com

M.B.B.S. [1<sup>st</sup> Prof.]

BF/2015/11

# **Biochemistry – A**

M.M.: 50

Time: 3 Hours

Note : Attempt all questions. **USE SEPARATE ANSWER SHEET FOR EACH PART.** 

## PART - I

#### 1. Write short notes:

a.	Acetyl CoA transport from mitochondria to cytosol for fatty acid synthesis	5.
		[3]

[3] b. Role of glutamate in urea cycle. Transport of exogenous and endogenous triglycerides in plasma? [3] c.

#### 2. Answer briefly:-

a.	Indicate t	he norm	al protective	mechanisms	in	RBC's	against	formation of
	Methemoglobin.						[3]	
-					-		-	

- b. Why fructose leads to enhanced fatty acid synthesis than glucose. [2]
- Metabolic derangements and consequences of ketosis. [3] c.

#### 3. **Briefly Explain:-**

a.	Muscle glycogen does not produce free glucose.	[3]
b.	Lipotropic factors prevent fatty liver.	[3]
c.	Gout.	[2]



#### Describe in detial:-4.

a.	Outline th	e cholesterol	synthesis	pathway.	Give	its	regulation	and	the
	biologically important compounds derived from Cholesterol.							[3]	

- Metabolism of glycine & related disorders. [3] b. [3]
- Importance of HMP shunt pathway. c.

#### 5. Write in brief:-

a.	Allosteric regulation using PFK as an example.	[3]
h	Classify phospholinide giving axamplas. Discuss various Phospholineses	[2]

- Classify phospholipids giving examples. Discuss various Phospholipases. [3] b. Donnan membrane equilibrium. c. [2]
- 6. Write notes on:-
  - Inhibitors of Electron transport chain. [3] a. Biochemical actions of vitamin C. [3] b. [2] c.

Coenzyme action of Pyridoxin and Vitamin B12.

### www.FirstRanker.com