a same last i.v. (4-5 litre in 1st 24 hrs) onth systeme blood pressure reaches to norma	11
n Insulin injection slow infusion I.V.	
>200 mg/dl Normal saline + insulin, if RBS <200 mg dextrose 5% + insulin)	
oonate 200 ml I.V.	
ng resin Sachets Orally.	
atheterization done but urine output is nil.	
ochemical parameters and urine output are monitored at regular interval till patient r	ecovered.
anation for altered consciousness and increase respiratory rate in this case.	
tabolic and functional abnormality can occur due to increase acetone level?	
r 24 hours serum acetone came down nearer to normal level?	
he cause of decreased urine output in this patient?	
rbonate, insulin and K+ binding resin reduce serum potassium level?	
ation (answer in few lines) (5 out of 7)	(10 marks)
e baby tends to develop respiratory distress syndrome	
s used to treat methanol poisoning.	
pancreatic and hepatic lipase inhibitor)treatment is supplemented with lipid soluble v	vitamins.
of proteoglycan is well suited for its function.	
ne administration in G6PD deficient patient can precipitate Hemolytic anaemia	
e of O2, glycolysis can not continue if there is no formation lactic acid.	
ised to measure glomerular filtration rate	
r in few line ( 5 out of 6)	( 05 marks)
e between Glucokinase & Hexokinase	
fatty acids name & function.	
cosuria	
ntolerance	
Lipoprotein	

#### 1st MBBs Preliminary Examination -June-2018; Biochemistry paper - I Max mark: 50

Department of biochemistry, GMC, Surat

**Duration : 2 hours** 

### Q: 1 write notes (2 out of 3)

- 1. Significant of HMP Shunt pathway & NADPH.
- 2. Electron-transport Chain
- 3. Regulation of Glycogenolysis. Enumerate any four Glycogen storage disorders with respective enzyme deficiency.

## Q: 2 describe in brief (4 out of 6)

- 1. Significance of Glycosylated hemoglobin
- 2. Metabolism of LDL
- 3. Principle and types of ELISA.
- 4. Tumour markers
- 5. Mucosal block theory of iron absorption
- 6. Clinical significance of Dietary Fiber

# Q: 3 write answer in few line (5 out of 6)

- 1. Sorbitol pathway
- 2. Rapoport Luebering shunt
- 3. Application of electrophoresis
- 4. Significance of cholesterol
- 5. Difference between cholinesterase and pseudocholinesterse.
- 6. Function of Phospholipids

## Q: 4 read the case & answer the questions

A 54 year old obese person presented in emergency with altered consciousness level and increase respiratory rate (tachypnea) for last 4 hours. He is having history of uncontrolled diabetes mellitus since 15 years, as he was not following any medical advice from physician. He was on insulin therapy for 3 years, but he was not taking regular dose of insulin. Patient's relative told that was also having complain of weakness and decrease urine output for last 2 days. On examination physician noted dryness of mouth, pale & dry conjunctive, sunken eye ball, feeble (low volume) pulse, tachypnea (increased respiratory rated), tachycardia (increase heart rate), very low blood pressure (70/40 mm Hg). Results of lab investigations are as follows.

Parameter	Value	Referance Range	
Random blood sugar	500 mg/dl	<140 mg/dl	
Serum acetone	10 mg/dl	<1 mg/dl	
Serum creatinine	2.5 mg/dl	0.4-1.4 mg/dl	
Blood urea	150 mg/dl	15-45 mg/dl	
Serum Na+	120mmol/L	135-145 mmol/L	
Serum K+	6.0 mmol/l	3.5-5.0 mmol/L	
рН	7.1	7.35-7.45	
p02	95 mmHg	90-100 mmHg	

The patient was diagnosed as a case of Diabetic ketoacidosis with acute renal failure.Patient was treated with

Inj normal saline fast I.V. (4-5 litre in 1st 24 hrs) Until systolic blood pressure reaches to normal

- Inj Human
- (If RBS is > ٠
- Inj Bicarbo
- K+ Binding
- Urinary ca
- All the bio overed.
- 1. Give explan
- 2. What meta
- 3. Why after
- 4. What is the
- 5. How bicarl

## Q:5 write justifica

- 1. Premature
- 2. Ethanol is
- 3. Orlistat (p mins.
- 4. Structure of
- 5. Primaquin
- 6. In absence
- 7. Inulin is us

## 0:6 write answer

- 1. Difference
- 2. Essential fa
- 3. Renal glyco
- 4. Lactose In
- 5. Name of Li
- 6. C-peptide

(08 marks)

(12 marks)

(05 marks)

(10 marks)