

# **MANIPAL ACADEMY OF HIGHER EDUCATION**

### SECOND SEMESTER B.Sc. (RRT & DT) DEGREE EXAMINATION - MAY/JUNE 2018 SUBJECT: BDT 102 - KIDNEY DISEASE - PART 2 AND TYPES OF RENAL REPLACEMENT THERAPIES (2016 RV SCHEME) Monday, June 04, 2018 (14.00 - 17.00)

### Answer ALL questions.

# Marks: 100

# Duration: 180 mins.

1A)	Define glomerular filtration rate (GFR). Explain GFR as renal assessment tool.	(20)
1B)	Explain renal anemia. Discuss erythropoietin treatment.	(20)
2A)	Describe radiological assessment of kidney.	(10)
2B)	Discuss pericarditis.	(10)

3A)	What is hyperkalemia? Explain the management of hyperkalemia.	(5)
3B)	Discuss indications and contraindications for kidney biopsy.	(5)
3C)	Write a note on uremic encephalopathy.	(5)
3D)	Define metabolic acidosis and list the causes.	(5)
3E)	List the endocrine functions of kidney. How hypocalcemia is treated in dialysis patients?	(5)
3F)	Why renal assessment is important? List the diagnostic tests used for it.	(5)

4A)	Define plasma clearance.	(2)
4B)	What is hypoglycemia?	(2)
4C)	Define azotemia.	(2)
4D)	What are acid and base?	(2)
4E)	Write any four risk factors for chronic kidney disease.	(2)

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#### SECOND SEMESTER BPT / B.Sc. C.V.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / BOPT / B.O.T./ B.Sc. N.M.T./B.Sc. M.L.T./ B.Sc. P.F.T. DEGREE EXAMINATION - MAY/JUNE 2018 SUBJECT : BIOCHEMISTRY / GENERAL BIOCHEMISTRYII (BIOC 102/BPT 106; BIOC 102; BIOC 102/BRES 108; BIOC 102/BMLT 106; BIOC 102/BDT 106; BIOC 102/ BOPT 104; BIOC 102/BOT 106; BIOC 102; BIOC 102; BIOC 102/BRLT 104; BIOC 102) (2016 RV & 2016 SCHEME)

#### Friday, June 01, 2018 (14.00 - 16.00)

Answer ALL questions.

Marks: 50		Duration: 120 mins.			
1)	Describe in detail the steps of gluconeogenesis from lactate. Mention the significance of this process.	(10)			
2A)	Classify enzymes and name one enzyme in each class.	(6)			
2B)	Name four diagnostic enzymes and mention their clinical importance.	(4)			
3) Answer the following questions:					
3A)	Define electron transport chain. Give a diagrammatic representation of its complexes with their components in their order arrangement.	r of (5)			
3B)	Write the site, subcellular site and reactions of $m{eta}$ -oxidation of fatty acyl CoA.	(5)			
3C)	Describe the structure of DNA with a suitable diagram.	(5)			
3D)	Write the reactions of urea cycle.	(5)			
4) <b>Answer t</b>	he following:				
4A)	Name two glycogen storage disorders and mention the defective enzymes.	(2)			
4B)	Mention one example and one function each for a homopolysaccharide and a heteropolysaccharide.	(2)			
4C)	Define the terms replication and translation.	(2)			
4D)	List four factors affecting basal metabolic rate (BMR).	(2)			
4E)	Name two water soluble vitamins and mention one function for each.	(2)			

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