	Reg. No.				
	MANIPAL ACADEMY OF HIGHER EDUCATION				
	FIRST YEAR B.Sc. R.T. DEGREE EXAMINATION – JUNE 2018				
SUBJECT: PHARMACOLOGY (2010 SCHEME)					
	Monday, June 18, 2018				
Time	e: 10.00 – 13.00 Hrs. Max. Marks: 80				
1.	Define the following terms:				
1A.	Half life				
1B.	Therapeutic Index				
1C.	Pharmacodynamics				
ID.	Hypersensitivity $(3 \text{ marks} \times 4 = 12 \text{ marks})$				
	$(5 \text{ marks}) \land 4 = 12 \text{ marks})$				
2.	Give the drug classification and one indication for the following drugs:				
2A.	Ipratropium bromide				
2B.	Metoprolol				
2C. 2D	Mannitol Propofol				
21).	$(4 \text{ marks} \times 4 = 16 \text{ marks})$				
2					
3.	Define shock, types of shock and drugs used in shock. $(2+5+5 = 12 \text{ marks})$				
	(2+5+5) = 12 marks)				
4.	Definition, pathophysiology and management of congestive heart failure.				
	(2+3+5=10 marks)				
5.	Classify Anti-hypertensive drugs and give one example for each.				
	(10 marks)				
6.	Explain the mechanism of action of an anticholinergic drug. List any three drugs and their				
	adverse effect.				
	(3+3 = 6 marks)				
7.	Explain Dissociative anaesthesia.				
	(5 marks)				
8	Explain the rationale for the use of adrenaline in combination with local apparthasis				
0.	(5 marks)				
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Enumerate the routes of drug administration. 9.

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(4 marks)

MANIPAL ACADEMY OF HIGHER EDUCATION FIRST YEAR BPT/B.Sc. RT DEGREE EXAMINATION – JUNE 2018 SUBJECT: BIOCHEMISTRY

Reg. No.

(NR/2015 BATCH)

Wednesday, June 20, 2018

1 11110, 10.00 11.00 110010	Time:	10.00-11.30 Hours	
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Answer ALL the questions.

1. Describe the reactions of TCA cycle. Mention its site and subcellular site.

2. Classify enzymes giving one example for each class.

3. Write short notes on the following:

- 3A. Digestion of dietary polysaccharides
- 3B. Components of the complexes in electron transport chain
- 3C. Biochemical basis of symptoms in diabetes mellitus
- 3D. Structure of DNA with diagram
- 4. Answer the following questions:
- 4A. Write normal serum levels of total protein and urea. Mention one condition each in which they are altered.
- 4B. Define saturated and unsaturated fatty acids with one example each.
- 4C. Define positive nitrogen balance with one example.
- 4D. Define gluconeogenesis and name two precursors for it.
- 4E. Name the serum lipoproteins.

 $(2 \text{ marks} \times 5 = 10 \text{ marks})$

 $(4 \text{ marks} \times 4 = 16 \text{ marks})$

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(6 marks)

(8 marks)

Max. Marks: 40