


R-3702
First Year M. B. B. S. Examination
June / July - 2018
Physiology : Paper - I

Time : 2.30 Hours]

[Total Marks : 50

Instructions : (1)

જેલે સાચીકે ધ્યાનથી વાંચી ઉત્તરવાની પદ ભરવા અભવી. Fill up strictly the details of signs on your answer book.		Seat No. : [][][][][][]
Name of the Examination : FIRST YEAR M. B. B. S.		Student's Signature []
Name of the Subject : PHYSIOLOGY : PAPER - I		
Subject Code No. : 3 7 0 2	Section No. (1, 2,) : 1&2	

(2) Draw diagrams and flow charts wherever required.

SECTION - I

- 1 What is pacemaker ? Discuss the origin of heart rate and its conduction pathway. 8
- 2 Write notes on any three : 12
 - (a) Surfactant
 - (b) Vital capacity
 - (c) Effects of CO₂ on control of respiration
 - (d) O₂ dissociation curve
- 3 Explain in brief any five : (in 1-2 sentences) 5
 - (a) Mechanism of anemic hypoxia
 - (b) Functional difference between lysosome and Peroxisome
 - (c) Difference between Reticulocyte and RBC
 - (d) Physiological role of cytotoxic T cells
 - (e) Abnormality in sickle cell anaemia
 - (f) Erythroblastosis Fetalis

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SECTION - II

- 4 Write in brief on any 4 : 8
- (a) Disorders of large intestinal motility
 - (b) Functions of saliva
 - (c) What is excitation-secretion coupling
 - (d) Role of pancreas in protein digestion
 - (e) Name any four Gastrointestinal hormones
- 5 Short notes on any 3 : 12
- (a) T tubules
 - (b) Emptying of urinary bladder
 - (c) Renin angiotensin system
 - (d) Sarcomere
- 6 Explain in briefly following : (any 5) 5
- (a) Importance of saltatory conduction
 - (b) Measurement of GFR
 - (c) Jaundice
 - (d) Tidal volume
 - (e) Symport
 - (f) Bowman's capsule.

