

www.FirstRanker.com Reg.Noww.FirstRanker.com First Year BDS Degree Examinations - August 2013

General Human Physiology and Biochemistry

Time: 3 Hours		Max Marks: 100
	•	Answer all questions
	•	Draw diagrams wherever necessary
		Write SECTION A and SECTION B in separate Answer books. Do

arate Answer books. Do TION B in se not mix up questions from Section A and Section B.

QP CODE:102002 Section A - PHYSIOLOGY Marks: 50

Essay

 List the steps involved in hemostasis. Name the clotting factors. Explain the intrinsic mechanism of blood coagulation and add a note on hemophilia. (4+3+5+2=14)

Short essays

- Explain the renin- angiotensin -aldosterone mechanism for the regulation of blood pressure.
- Draw a normal spirogram. Define the lung volumes and lung capacities with its normal values. Add a note on significance of vital capacity.

Short notes

- Define anemia. Classify anemia based on etiology.
- Describe the composition and functions of pancreatic juice.
- Explain the structure of a chemical synapse and transmission of impulses across synapse.
- 7. Describe the stages of spermatogenesis. Add a note on factors influencing spermatogenesis.
- 8. Mention the normal blood calcium level. Discuss the actions of parathormone

Section B - BIOCHEMISTRY

QP CODE:103002

Essay

1. Define transmethylation. Discuss about the synthesis, functions, catabolism of amino acid involved in transmethylation reactions and disorders associated with its metabolism.

(2+2+4+3+3=14)

Short essays

- Explain the role of insulin and glucagon in regulation of normal blood glucose level.
- Explain biochemical functions and deficiency manifestation of vitamin C.

Short notes

- Dietary fibers.
- 5. Gout.
- Ketoacidosis
- 7. Absorption and transport of iron.
- Normal serum level and formation of bilirubin.

FirstRanker.com Firstranker's choice

www.FirstRanker.com

(2x8=16)

Marks: 50

(14)

(5x4=20)

(2x8=16)

(14)

(5x4=20)