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BCS 404

I Semester M.Sc. Degree Examination, December 2018
BIOCHEMISTRY
Human Physiology

Time : 3 Hours

Max. Marks : 70

Instruction : Answer any ten from Part A and any five from Part B.

PART – A

1. Answer **any ten** of the following. **(10×2=20)**
- Write the electrophoretic pattern of normal plasma proteins.
 - What are the physiological buffers ? Write its importance.
 - What are photoreceptor cells ? Write their functions.
 - What are chylomicrons ?
 - Write a note on neuromuscular junction.
 - What are phosphagens ? Write examples.
 - What is glomerular filtration ?
 - What is alkalosis ?
 - What are the different types of liver cells ?
 - What is the role of pancreas in digestion ?
 - What is the function of somatostatin ?
 - What are neurotransmitters ? Give examples.

PART – B

(5×10=50)

- Explain regulation of electrolyte and water balance.
 - Explain the feedback regulation hormone with illustrations.
- Describe the mechanism of secretion of HCl.
 - Illustrate the functions of olfactory organs.

P.T.O.



4. a) Explain the urine analysis for abnormal constituents.
b) Write a note on gastrointestinal hormones and functions.
 5. a) Explain the mechanism of muscle contraction.
b) What is differential counting of blood ? Explain.
 6. a) What is the composition and functions of CSF ?
b) Write the structure of fluid mosaic model.
 7. a) Explain mechanism of oxygen binding to haemoglobin.
b) Explain the fine structure of a muscle fiber.
 8. a) What are factors responsible for secretion of bile.
b) Write a note on nerve receptors.
 9. a) Pituitary is master organ, justify.
b) Write a note on blood clotting.
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