

Time: 3 Hours

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Answer all questions

	•	<ul> <li>Draw diagrams wherever necessar</li> <li>Write SECTION A and SECTION B in not mix up questions from Section A a</li> </ul>	separate Answer books. Do
Q	P CODE:102002	Section A - PHYSIOLOGY	Marks: 50
Es	say		(14)
1.	Define hemostasis. Enur of clotting and add a note	nerate the steps of hemostasis. Expla e on hemophilia	in in detail the mechanisms (1+2+6+3+2=14)
Sh	ort essays		(2x8=16)
	<ul> <li>Describe the composition and functions of gastric juice.</li> <li>Enumerate the hormones secreted by the anterior pituitary. Describe the actions of growth hormone.</li> </ul>		
Sh	ort notes		(5x4=20)
5. 6. 7.	Factors influencing sperr Sinoaortic reflex Surfactant Active transport Functions of middle ear	matogenesis	

QP CODE:103002 Section B - BIOCHEMISTRY	QP CODE:103002	Section B - BIOCHEMISTRY
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## Essay

1. What is the normal serum calcium level. Mention six functions of calcium. Explain the mechanisms by which serum calcium is regulated. What are the causes and manifestations of hypocalcemia. (1+3+6+4=14)

## Short essays

- Explain briefly about the enzymes that show variations in the serum level in the following
- Describe the role of carnitine in fatty acid oxidation. Narrate the steps of beta oxidation of Palmitic acid. Add a note on its energetics

## Short notes

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- What is the normal pH of blood. Explain the role of kidney in acid base balance.
- Significance of HMP shunt pathway.
- 6. Importance of dietary fibre
- Name the specialized products synthesized by tyrosine. Mention the defect in phenylketonuria and albinism.
- 8. Name four biologically important nucleotides. Mention their functions

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(5x4=20)

## (2x8=16)

Marks: 50

(14)