

DECEMBER 2017

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NATIONAW DO ATT PSO REXAMMENTATION IS

PAPER – I

Time : 3 hours PHY/D/17/36/I

Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1.	 a) Define homeostasis. b) Explain in brief characteristic features of negative and feedback mechanisms. Give appropriate examples. c) Add a note on Feed Forward Control system. 	1+6+3
2.	 a) Illustrate with the help of diagram /flow chart the formation of temporary and permanent haemostatic plugs. b) Components and physiological importance of Fibrinolytic system. c) Pathophysiology of disseminated intravascular coagulation. 	5+3+2
3.	a) Enumerate various components of Cytoskeleton.Explain in brief the structure and function of each.b) List the major molecular motors and their functions.	6+4
4.	a) Role of folic acid in erythropoiesisb) Features and laboratory investigations of folic acid deficiency anemia	4+(3+3)
5.	a) Steps involved in production of hyperosmotic renal medullary interstitium.b) Role of vasa-recta in excreting concentrated urinec) Free-water clearance	5+3+2
6.	a) Define Glomerular Fillration Rate (GFR)b) Determinants of GFRc) Autoregulation of GFR and renal blood flowd) Measurement of GFR	1+3+3+3

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PHYSIOLOGY PAPER – I

7.	a) What is Mononuclear Phagocytic System?b) What are its components, their location and functions in human body?	2+8
8.	a) Define ageingb) Theories of ageingc) Anti-ageing therapies	1+5+4
9.	a) Sampling techniques in medical researchb) ANOVA	6+4
10.	a) What are the factors affecting metabolic rate?b) Obesity	6+4

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