

2017

NUTRITION

[Honours]

PAPER –I

Full Marks : 90

Time : 4 hours

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

UNIT – I

GROUP – A

- 1. Answer any five questions of the following : 2 × 5**
 - (a) What is Cushing syndrome ?**
 - (b) What is red cell compatibility ?**

(Turn Over)

(2)

- (c) What is chymotrypsinogen and where it is synthesized ?
- (d) Differentiate active and passive immunization.
- (e) What are nitrogenous wastes ?
- (f) Differentiate breathing and respiration.
- (g) State the function of apocrine gland with example.
- (h) What is saltatory neural conduction ?

GROUP – B

Answer any four questions from the following : 5×4

- 2. Represent the different events ventricular systole with a suitable diagram. $3 + 2$
- 3. Discuss briefly the digestion of protein-starting from stomach till the formation of amino acids at small intestine with the help of a diagram. 5
- 4. What is optic chiasma ? Draw a neat and clean picture of human optic nerve tract. $1 + 4$

(3)

5. What is spermiogenesis ? Elaborate the hormonal regulation of spermatogenesis. 1 + 4
6. What do you mean by 'Maternal passive immunity' and how does it develop ? 1 + 4
7. What is meant by Eccrine sweat glands ? What is the role of erector pili muscles ? 2 + 3
8. Discuss briefly the mechanism of isovolumetric contraction and isovolumetric relaxation of heart. 5

GROUP – C

Answer any one question of the following :

- 15 × 1
9. (a) Describe role of insulin on the level of blood glucose regulation. 5
 - (b) Discuss the mechanism of skeletal muscle contraction with special reference to the role of calcium binding protein. 10
 10. (a) Discuss the role of primary motor cortex in the execution of movement. 5

(4)

- (b) Discuss the different consequences of hormonal imbalance in women with respect to reproduction. 5
- (c) Describe the renal autoregulation by explaining the role of JG cells. 5

UNIT – II

GROUP – D

11. Answer any *five* questions of the following : 2 × 5

- (a) What is grapevine communication ?
- (b) What are basic objectives of KAP model in nutritional science ?
- (c) What do you mean by nutrition informatics ?
- (d) What are the minimum eligibility of a Anganwari worker ?
- (e) What do you mean by mass media ?
- (f) Who are the beneficiary groups for SNP and CNP ?

(5)

- (g) Which nutritional programme developed under National Food Security Act, 2013 ?
- (h) What do you mean by 'Wheat based nutrition programme' ?

GROUP – E

Answer any **four** questions from the following :

5 × 4

12. Discuss the nutritional approach under 'Millenium Development Goal'. 5
13. Discuss the role of nonformal education for the development of good nutritional practices among mothers. 5
14. State the different barriers of communication system. What is meant by information centered method ? 3 + 2
15. "The current MDMP programme should be improved in newer approach" – enumerate your suggestion on the comments. 5

16. Explain the role of a commodity and state of mind in the development of better nutritional information system. 5
17. Discuss the women to women strategy of nutrition education of rural people. 5
18. Discuss the role of WHO in the development of nutritional programme. 5

GROUP – F

Answer any one question of the following :

15 × 1

19. (a) Discuss the role of different NGOs in a community to develop Nutrition awareness education. 5
- (b) State the objectives of MDMP and mention the services provided in this programme. 5
- (c) Discuss the merits and demerits of ANP and SNP. 5
20. (a) Elaborate the objectives of Nutrition

communication system with mentioning the different elements of communication. 6

(b) What is your idea about health group communication method and behaviour centered method ? 5

(c) Enumerate your idea about the formulation of proper "Integrated Approach of Nutrition in our community". 4
