

**2018**

**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) Write the 'Starling Law of Heart'.**
  - (b) What is plasminogen ?**

**( Turn Over )**

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- (c) What is the sources of inhibin and oestrogen in female ?
- (d) 'Urine is acidic in nature though blood is alkaline'— What is the reason behind it ?
- (e) What is the role of skin in body temperature regulation ?
- (f) What are the volumes of lungs those can not be measured directly by spirometer ?
- (g) Write any two differences between primary and secondary immuno response.
- (h) Which are the hormones referred as 'stress-induced hormone' ?

**GROUP—B**

Answer any **four** questions from the following :  $5 \times 4$

- 2. (a) Write the line diagram of extrinsic and intrinsic pathway of thromboplastin formation.
- (b) Why is heparin called anticoagulant ?       $4 + 1$

3. (a) State the site of action of pepsin and trypsin on peptide chain.
- (b) What is chylomicron ?  $3 + 2$
4. (a) State the hormonal basis of different phases of uterine endometrium histology in menstrual cycle with salient features.
- (b) Write the sign and symptoms of menopause.  $2\frac{1}{2} + 2\frac{1}{2}$
5. (a) Critically state the role of ADH in urine formation.
- (b) Write the role of vasa-rectain in micturation.  $2\frac{1}{2} + 2\frac{1}{2}$
6. (a) What do you mean by full and partial immunization ?
- (b) State the role of community for universal vaccination implementation.  $2 + 3$
7. (a) State the origin, flow and functions of vagus nerve in our-body.
- (b) What is relay station to cerebrum ?  $4 + 1$

( 4 )

8. (a) State the role of hormones involved in calcium balance in our body.

(b) What are neurohormones ? 4 + 1

GROUP—C

Answer any **one** question of the following : 15 × 1

9. (a) What is oxygen dissociation curve ? State the factors for its right and left shifting.

(b) Write the mechanism of hyperventilation noted in high altitude ?

(c) What is Physiological dead space ?  
(2 + 6) + 5 + 2

10. (a) State the role of buffer system in the regulation of blood pressure.

(b) Write the mechanism of ovulation.

(c) How does hypertonic urine formed in renal tubules ? 6 + 5 + 4

( 5 )

UNIT-II

GROUP-D

11. Answer any five questions of the following :  $2 \times 5$

- (a) Mention the programmes in the fields of nutrition.
- (b) Write the names of any two barrier of educational communication in rural sector.
- (c) Write the objective of communication system ?
- (d) Write the role nutrition education in community.
- (e) Write the target group of CNP.
- (f) What do you mean by adoptor woman in IEC ?
- (g) Write any two limitations of 'Mass Communication Media'.
- (h) Write the names of any two advantages in ICDS programme.

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**GROUP—E**

**Answer any four questions from the following :  $5 \times 4$**

- 12. (a) Write the basic concept of Nutritional programme formulation.**
- (b) State the limitations of ICDS programme.** 3 + 2
- 13. Write the objectives 'C to P' strategy for nutritional education expansion in target group. Why are children within class VIII selected in this programme ?** 2 + 3
- 14. Write the objectives of BFP. What are the services delivered to the target groups through BFP.** 2 + 3
- 15. What do you mean by education expansion ? "KAP is modulated by IEC"— Justify the statement.** 2 + 3
- 16. Information development is under positive control of in depth education and research'— Justify the statement.** 5

( 7 )

17. What are the limitation of ANP programme ?  
Write your suggestion for improvement of the  
programme. 3 + 2

18. Write the impact of nutrition and health  
programme in rural sector. 5

**GROUP—F**

Answer any one question of the following :  $15 \times 1$

19. (a) What are the major types of evaluation  
adopted for the assessment of nutritional  
programme ?
- (b) Write the major steps adopted for evaluation  
of nutritional programme.
- (c) State the impact of programme evaluation  
in the field of nutrition. 3 + 6 + 6
20. (a) Write the major steps adopted for the  
formulation of information centered methods.
- (b) State the major components of mass  
education in the field of nutrition. 8 + 7
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