

2015

NUTRITION

[Honours]

PAPER – I (New)

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

[NEW SYLLABUS]

UNIT – I

GROUP—A

1. Answer any *five* questions from the following : 2 × 5
 - (a) What is the difference between plasma and serum ?

- (b) What is substance H ?
- (c) What is ghrelin ?
- (d) What is intracrine ?
- (e) What is the function of ledyg cells ?
- (f) What is paratope ?
- (g) What are the characteristic features of fast-twitch fiber ?
- (h) What is the composition of lung surfactant ?

GROUP-B

Answer any *four* questions from the following : 4×5

2. (a) What is the site of haemoglobin synthesis inside the cell ?
- (b) What is meant by *T* and *R* form of haemoglobin ?
- (c) State the composition of haemoglobin *A* and *F*. 1 + 2 + 2

3. State the hormonal regulation of menstrual cycle. 5
4. (a) Write the name of neurohypophyseal hormone regulating kidney function.
- (b) How water balance in kidney is maintained? 1 + 4
5. Describe the absorption of higher fatty acids ($> C_{10}$) with special reference to the role of apolipoproteins. 5
6. (a) What is meant by odorant receptor?
- (b) Draw a clear diagram of olfactory bulb along with the orientation of olfactory receptors. 1 + 4
7. (a) What is Hasimoto disease?
- (b) "Cholecalciferol is a hormone" – justify your answer. 2 + 3
8. (a) Compare minute ventilation, alveolar ventilation and dead space ventilation.
- (b) What is 'Hering-Breuer reflex'? 3 + 2

GROUP—C

Answer any **one** question : 15×1

9. (a) Describe the muscle contraction with special reference to the role of nicotinic acetylcholine receptor.
- (b) Draw a clear diagram of neuromuscular junction. $12 + 3$

10. (a) What is anaphylactic shock ?

(b) What do you mean by live-attenuated vaccine and killed vaccine— explain with example.

(c) State humoral and cell mediated immunity. $2 + 3 + (5 + 5)$

UNIT – II

GROUP—D

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

(a) What is meant by communication channels ?

(b) What are the objectives of nutrition education ?

- (c) What do you know by grapevine communication in nutrition ?
- (d) What is the recommendation of UNICEF regarding social mobilization ?
- (e) What is Food Security Information Network ?
- (f) Name the components of 5-step model or 5 As of nutrition counselling.
- (g) Write the full form of CNP and BFP.
- (h) When Mid-Day-Meal programme first started and what is the current coverage of children in India under this programme.

GROUP-E

Answer any **four** questions of the following : 5 × 4

12. (a) What do you mean by Interactive Nutrition Activities ?

(b) What types of teaching strategies should be taken when nutritional education programme is arranged for all socioeconomic group of the community ?

2 + 3

13. (a) What are the eligibility criteria to be an Anganwadi worker?

(b) Enumerate the structure of ICDS system.

$$2\frac{1}{2} + 2\frac{1}{2}$$

14. (a) What are the objectives of ANP?

(b) Mention the limitations of ANP system.

$$2\frac{1}{2} + 2\frac{1}{2}$$

15. (a) Enumerate the role of highly advance media in developing nutritional health awareness among middle class population.

(b) What would be the criteria to be a good 'Nutritional Counsellor'?

$$3 + 2$$

16. (a) What is one-way communication and negotiated communication?

(b) State the encoding and decoding in the feedback system of communication.

$$3 + 2$$

17. State the different barriers of nutritional communication with reference to the country like India.

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18. (a) What is BCC ?

(b) Differentiate BCC and IEC by giving example to food habit.

$$2\frac{1}{2} + 2\frac{1}{2}$$

GROUP—F

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

19 (a) What is the utility of 'women to women strategy' of nutrition education in a community and how this system works? Differentiate poor and rich information with example.

(b) Describe the elements of communication. 'Information— a commodity and a state of mind' — justify the statement. $(4 + 4) + (4 + 3)$

20. (a) State the reasons for evaluating nutrition education programmes.

(b) Who are the target groups for MDMP? Discuss the limitation of this programme along with your suggestion for the improvement of this programme.

(c) What is wheat-based nutrition programme ?

(d) Describe the nutritional programmes launched by Govt. of India for adolescent girls by mentioning its aims, beneficiaries and services.

3 + (1 + 4) + 2 + 5
