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B.Sc/4th Sem (H)/NUTR/23(CBCS)

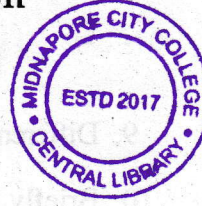
2023

4th Semester Examination

NUTRITION (Honours)

Paper : SEC - 2T

[CBCS]



Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

[Basic Molecular Biology]

Group - A

Answer any *five* questions :  $2 \times 5 = 10$

1. What is the difference between nucleoside and nucleotide?
2. What do the codons UGA, UAA and UAG mean in normal translation?
3. What is genetic code?
4. Define operon.
5. State the role of t-RNA.
6. What is ribozyme?

P.T.O.

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7. Define proteomics.
8. What is mitochondrial genome?



**Group - B**

Answer any *four* questions.  $5 \times 4 = 20$

9. Differentiate between B-DNA and Z-DNA.
10. Briefly describe about the structural components of Nucleic acid.
11. How does termination of transcription of m-RNA take place? What is polysome?  $4+1$
12. Write the features of genetic code.
13. Define metabolomics. Write the importance of metabolomics in health status assessment.  $2+3$
14. Briefly describe semiconservative replication.

**Group - C**

Answer any *one* question.  $10 \times 1 = 10$

15. Discuss the Watson and Crick model of DNA with diagram.
16. Briefly describe the initiation of eukaryotic translation and demonstrate the steps with diagram.

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OR

**[Nutrition and Fitness]**

**Group - A**

Answer any *five* questions from the following :  $2 \times 5 = 10$

1. Define mental fitness.
2. What is a physical activity pyramid?
3. Define endurance.
4. Write the duration of physical activity weekly and per day as per standard norm.
5. Define health.
6. What is the difference between yoga and exercise?
7. What is agility and why is it important?
8. What does vigor mean in health?

**Group - B**

Answer any *four* questions.  $5 \times 4 = 20$

9. Discuss briefly the holistic approach of fitness.
10. Why is physical activity so important for health and well-being?
11. How to use the FITT (frequency, intensity, time and type) principle for efficient workouts?

P.T.O.



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12. What are the guidelines for physical activity for youth in India?
13. What is role of micronutrients in maintaining physical fitness?
14. What are the nutritional guidelines for maintaining health and fitness?

**Group - C**

Answer any *one* question. 10×1=10

15. What is a fitness assessment? What should you do before conducting a fitness assessment? Discuss the role of different types of training for fitness. 2+3+5
16. What is the role of diet in weight management? What is the role of exercise for weight management? 5+5



( 5 )

**[Entrepreneurship Development]**

OR

**Group - A**

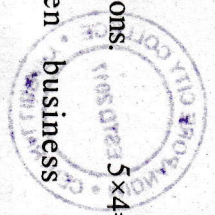
Answer any *five* questions : 2×5=10

1. Define project appraisal.
2. What is the meaning of financing in entrepreneurship?
3. What are the four stages of enterprise?
4. What is meant by market research?
5. What is the purpose of establishing a business enterprise?
6. Why entrepreneurship is important in international business?
7. Why is loan important for enterprise?
8. Define export financing.

**Group - B**

Answer any *four* questions. 5×4=20

9. What is difference between business and entrepreneurship?
10. Discuss about any two major types of capital.



P.T.O.

( 6 )

11. What are the four important functions of marketing?  
What is the importance of marketing management? 3+2

12. Describe the features of a successful entrepreneur.

13. What is marketing? What are examples of marketing in everyday life? 1+4

14. Write the assessment technique of judging feasibility of a project.

**Group - C**

Answer any *one* question. 10×1=10

15. Why is entrepreneurship important in international business? Differentiate between international business and entrepreneurship. 4+6

16. What is the process of setting of an enterprise in the food sector? How do you analyse the success of an enterprise? Discuss the problems faced by women entrepreneurs of India. 3+3+4



( 7 )

OR

**[Women Health and Nutrition]**

**Group - A**

Answer any *five* questions : 2×5=10

1. Why extra folic acid is needed in case of pregnancy?

2. What is food aversion?

3. What the consequences of insufficient calorie intake during pregnancy?

4. Define Pregnancy induced hypertension.

5. What is GDM?

6. Write about deficiency of iron and protein in pregnancy.

7. What is pica?

8. What is galactagogue?

**Group - B**

Answer any *four* questions. 5×4=20

9. Write about adolescent pregnancy.

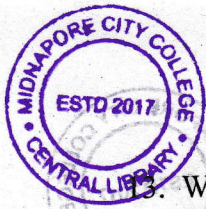
10. Write the importance of weight gain during pregnancy.

11. What is antenatal care? State briefly with schedule. 2+3

12. What are the common problems of pregnancy?



P.T.O.



13. Write briefly about iodine and calcium deficiency problem during pregnancy.

14. Which non-nutritional factors effects pregnancy outcome?

**Group - C**

Answer any *one* question. 10×1=10

15. Write the dietary management of pregnant and lactating mother. 5+5

16. Discuss about dietary management of gestational diabetes and gestational hypertension. 5+5