



ବିଦ୍ୟାସାଗର ବିଶ୍ୱବିଦ୍ୟାଳୟ

VIDYASAGAR UNIVERSITY

B.Sc. Honours Examination 2021

(CBCS)

4th Semester

NUTRITION

PAPER—SEC2T

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

SEC2T : BASIC MOLECULAR BIOLOGY

Group – A

Answer any *two* questions.

2×15

1. Describe the steps of DNA replication mentioning the role of enzymes involved in prokaryotes. 15
2. Discuss different phases of translation in prokaryotes. 15
3. Discuss the double helical structure of DNA with diagram. 15

4. "DNA is a genetic material" – Justify the statement. 15

Group – B

Answer any *one* question. 1×10

5. Differentiate between nucleotides and nucleosides. Write any four features of genetic code. 6+4
6. What is metabolomics? Write the importance of proteomics and metabolomics in health status assessment. 2+8

SEC2T : NUTRITION AND FITNESS

Group – A

Answer any *two* questions. 2×15

1. What do you mean by the term fitness? Define the term health. Write down the nutritional guidelines for keeping a person healthy and fit. How much protein is required for a basket ball player per day? 3+3+7+2
2. What does distinguish aerobic activity from lifestyle activity? How much active aerobics or active sport activity is recommended? What do you mean by the term strength training? Describe the FITT choices of the physical pyramid. 3+3+3+6
3. Write down the importance of physical activity. What is nutritional supplement? Which types of nutrition supplement do you suggest for a vitamin A and calcium deficient patient? 5+4+6
4. How do you assess the fitness of a person? Which type of approaches a person should follow to keep fit?

Group – B

Answer any *one* question. 1×10

5. Describe the physical activity pyramid. 10
6. Write down about the importance of diet and exercise for weight management. 10

SEC2T : ENTREPRENEURSHIP DEVELOPMENT

Group – A

Answer any *two* questions. 2×15

1. What is entrepreneurship? Write down the process of entrepreneurship development. What do you mean by pure entrepreneur? Explain the role of entrepreneur in economic growth. 3+4+3+5
2. Write down the objectives of entrepreneurship development programme. What is investment allowance? Discuss the n-achievement theory of motivation. 4+3+3+5
3. What do you mean by internal and integrated marketing? Write down the classification of markets. What are the differences between marketing and selling? Mention the stages of product life cycle. 4+4+3+4
4. Discuss briefly the ethnocentric and regiocentric approaches of international business. What do you mean by foreign direct investment? What are GATT and IMF? 5+5+5

Group – B

Answer any *one* question. 1×10

5. What are the sources of fixed capital? Explain the various steps of setting an enterprise. 5+5

6. Briefly state the basic techniques for global money management. How can money management in an international business be used to minimize cash balances; transaction cost and taxation? 3+7

SEC2T : WOMEN HEALTH & NUTRITION

Group – A

Answer any *two* questions. 2×15

1. What do you mean by gestational diabetes mellitus (GDM)? Write the causes and management of GDM. What is antenatal care? 5+7+3
2. What do you mean by adequate weight gain during pregnancy? Write the importance of it. Discuss the complications arise due to adolescent pregnancy. 5+3+7
3. Write the nutritional requirements of a mother during lactation. Write causes of nausea and vomiting during pregnancy. 9+6
4. What do you mean by food aversion? State the role of galactogogues in milk production. Discuss the problem of iron and folate deficiency during pregnancy. 3+5+7

Group – B

Answer any *one* question. 1×10

5. Why are extra nutrients essential during pregnancy? Discuss pica during pregnancy. 5+5
6. How do you prepare a mother for hygienic lactation? Discuss briefly the role of non-nutritional factors affecting pregnancy outcome. 5+5