



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**  
**Question Paper**

**B.Sc. Honours Examinations 2022**

(Under CBCS Pattern)

**Semester - IV**

**Subject : NUTRITION**

**Paper : SEC 2-T**

**Full Marks : 40**

**Time : 2 Hours**

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

*The figures in the margin indicate full marks.*

**(Basic Molecular Biology)**

**Group - A**

Answer any *four* questions.

5×4=20

1. Name the bases of nucleic acids. Differentiate between nucleosides and nucleotides. 2½+2½
2. Name any two inhibitors of translation and write about its mode of action. 5
3. What do you mean by 'Semi conservative mode of replication' ? 5
4. Define genomics and proteomics. 5
5. 'Cellular organisms utilize mRNA for genetic information'. — Justify the statement. 5
6. Enumerate your concept about tRNA and rRNA. 5

P.T.O.

**Group -B**

Answer any *two* questions.

10×2=20

7. Discuss the process of DNA replication in *E. Coli*. 10
  8. Illustrate the structure of RNA with appropriate diagram. What is the difference between codon and anticodon ? 6+4
  9. Differentiate between prakaryotic and enkaryotic translation process. 10
  10. Briefly discuss the steps of RNA transcription. Enumerate your idea about post translational modification of protein. 6+4
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*Or*

**Nutrition and Fitness**

**Group - A**

Answer any *four* questions. 5×4=20

1. What do you mean by Lean body mass and fat free body mass ? 5
2. What are meant by ectomorphic, mesomorphic and endomorphic body ? 5
3. How do you assess fitness of an individual ? 5
4. Discuss briefly about different benefits of physical activities. 5
5. What do you mean by nutritional supplements. Give examples. 2½+2½
6. 'Physical activity prevents metabolic diseases' — Justify the statement. 5

**Group -B**

Answer any *two* questions. 10×2=20

7. Discuss the importance of diet on weight management. Write in short about physical pyramid. 6+4
  8. Classify physical activity on the basis of intensity and frequency. Write in short about physical activity guideline. 2½+2½+5
  9. Define performance and endurance. Describe any two ways of assessment of physical activity of an individual. (2+2)+6
  10. Explain the nutritional guidelines for health and fitness. 5+5
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*Or*

**Entrepreneurship Development**

**Group - A**

Answer any *four* of the following :

5×4=20

1. What are the need and importance of entrepreneurship ?
2. Describe the features of a successful entrepreneur.
3. Describe how projects are identified and formulated ?
4. What are the characteristics of business finance ?
5. “Entrepreneurship is a good option for career development” — Give comment on this statement.
6. What is a Micro, Small or Medium scale Enterprise ?

**Group - B**

Answer any *two* questions.

10×2=20

7. Describe four major types of capital. 10
8. What are the criteria for selecting product ? How do you appraise the project ? 5+5
9. Write a note on ‘Production and Operation Management’. 10
10. Write the essential components of training. Describe the steps for starting Small-Scale Industries. 5+5

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Or

**Women Health and Nutrition**

**Group - A**

Answer any *four* questions from the following : 5×4=20

1. What is galactogogues ? What is Pregnancy Induced Hypertension (PIH) ? 3+2
2. What is antenatal care ? Write the schedule of it. 2+3
3. Write about the importance of weight gain during pregnancy. 5
4. Write short note on pregnancy induced diabetes. 5
5. Write briefly about teenager pregnancy. 5
6. Briefly discuss the nutritional requirement during pregnancy. 5

**Group - B**

Answer any *two* questions from the following : 10×2=20

7. What is breast feeding ? Discuss the nutritional requirements during lactation. 2+8
  8. Discuss any two common problems of pregnancy and write their management. 5+5
  9. Discuss about the iron and protein deficiency related complications during pregnancy. 5+5
  10. How non nutritional factor affecting pregnancy out come ? — Discuss. Write about the care of nipple during pregnancy ? 7+3
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