2019

B.Sc. (Hons.)

4th Semester Examination

NUTRITION

Paper—SEC2T

Full Marks : 40 Time : 2 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

1. Answer any *five* questions : 5×2=10

   (a) What is Okazaki fragment ?

   (b) What is ribozyme ?

   (c) Define proteomes.

   (d) What is intron ?

   (e) State the role of tRNA.

   (f) What is phosphoribosyl pyrophosphate (PRPP) ? In which metabolic pathway it is found.

[Turn Over]

(g) What is meant by degecrancy in DNA sequence ?

(h) When is proteomics study more informative than genomics study in eukaryotes ?

Group–B

2. Answer any *four* questions : 4×5=20

(a) Differentiate nucleotide and nucleoside. What is Watson and Crick Model of DNA ? 2+3

(b) How does termination of transcription of mRNA take place ? What is mitchondrial genome ? 3+2

(c) Define metabolomics. Discuss few application of proteomics with example. 2+3

(d) Briefly discuss why ds DNA and its antiparallel nature make DNA most stable structure. How does metabolomics differ from proteomics ? 3+2

(e) Briefly describe roling circle model of DNA replication. 5

(f) Briefly describe the initiation of prokaryotic transcription and demonstrate the steps with suitable diagram. 5

(iii) What kinds of approaches are taken for keeping fit ? (2+4+4)

(b) (i) Describe the role of protein on fitness.

(ii) Write brief note on endurance exercise.

(iii) Describe the term physical activity pyramid. (4+3+3)

Intrepreneurship Development

Group-A

1. Answer any *five* questions of the following : 5×2=10

(a) Define intrepreneurship.

(b) What do you mean by fixed capital ?

(c) Define working capital.

(d) What is export financing ?

(e) Define market research.

(f) Why loans are important for enterprise.

(g) Write any two charateristics of business finance.

(h) What is meant by project feasibility ?

Group-B

2. Answer any *four* questions of the following : 4×5=20

   (a) State the factors influencing entrepreneurship.

   (b) Write the steps of project formulation in brief.

   (c) Describe in short the criteria about the selection of market for international business.

   (d) Write the different steps involved in selection of a new product launching.

   (e) Write a brief note on marketing research and development.

   (f) Discuss in brief the different forms of business organisation.

Group-C

3. Answer any *one* questions of the following : 1×10=10

   (a) State the features of sucessful entrepreneurship. Write the assessment of project feasibility. 6+4

   (b) Write the importance of marked servey about physical distribution of the product. State the characteristics of business finance. 5+5

Women Health Nutrition

Group-A

1. Answer any *five* questions of the following : 5×2=10

   (a) What do you mean by galactogogues ?

   (b) What is Pica ?

   (c) Define let down reflex ?

   (d) What is PIH ?

   (e) Define antinatal care ?

   (f) Write any two factors which affects the volume and composition of breaft milk.

   (g) What is 'Gestational Diabetes' ?

   (h) Write the extra energy requires during pregnancy.

Group-B

2. Answer any *four* questions of the following : 4×5=20

   (a) Write the possible health risk during adolescent *Pregnancy.*

(b) Discuss about non-nutritional factors affecting Pregnancy outcome.

(c) Write a sort note on weight gain during Pregnancy.

(d) Discuss about care and preparation of nipples during breast feeding.

(e) Discuss about gestational Diabetes and constipation during Pregnancy.

(f) Write the dietary guideline during lactation.

Group-C

3. Answer any *one* questions of the following : $1 \times 10 = 10$

(a) Discuss about Nutritional Measurements during Pregnancy.

(b) Discuss about Nutritional Measurements during lactation.