

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Nutrition and Dietetics) (Sem.-4)
FOOD STANDARDS AND QUALITY CONTROL

Subject Code : BSND-221-18

M.Code : 79521

Date of Examination : 05-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

I. Write briefly :

- a) Food sampling
- b) Chemical hazards in food
- c) FSSAI
- d) GRAS
- e) BIS
- f) Food preservatives as a food additive.
- g) GHP
- h) Grading of foods.
- i) Any ONE chemical method of food evaluation.
- j) Food Safety Management System.



SECTION-B

2. What do you understand by food quality? Throw light on the factors affecting it.
3. Write a note on any TWO types of toxicants.
4. 'Food regulations help to keep a check on food quality.' Discuss the role of Codex Alimentarius.
5. What is food adulteration? Write any one test for adulteration for 5 different foods each?
6. 'Evaluation helps to assess new food products.' Discuss the selection of sensory panel for evaluation?

SECTION-C

7. Write a detailed note on the concept, principles and working of HACCP.
8. Explain the various subjective methods of food evaluation.
9. Define food additives. Write a note on the classification and coding of food additives.

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B.Sc. (Nutrition and Dietetics) (Sem.-4)

CLINICAL NUTRITION

Subject Code : BSND-223-18

M.Code : 79523

Date of Examination : 11-07-22

Time : 3 Hrs.

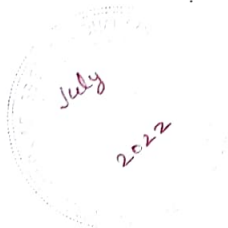
Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. SECTION-B contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. SECTION-C contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

1. Write briefly :
 - a) Diet therapy
 - b) Soft diet
 - c) Colitis
 - d) Bilirubin
 - e) Atherosclerosis
 - f) Nephron
 - g) Calculi
 - h) Plaque
 - i) Oliguria
 - j) Symptoms in diarrhoea



SECTION-B

2. What do you understand by *nutritional status and disease?*
3. Discuss the etiology, clinical signs symptoms and dietary management of diarrhoea.
4. As a dietitian, discuss the etiology, clinical signs, symptoms and dietary management of hypertension.
5. Discuss the etiology, clinical signs, symptoms and dietary management of nephrotic syndrome.
6. Throw light on the etiology, clinical signs and symptoms, metabolic changes and dietary management for a patient suffering from hepatitis?

SECTION-C

7.
 - a) Discuss the therapeutic adaptations of normal diet.
 - b) Write a note on clear fluid and full fluid diet.
8. Raman, age 29 works in a multinational company. He was having constant heart burn. After visiting the doctor, he came to know he has ulcers in his stomach and duodenum. As a dietitian, explain Raman the etiology, clinical signs and symptoms, metabolic changes and dietary management of peptic ulcers.
9. Rahul after his blood test came to know that his fasting glucose is 211mg and HbA1C is 7.1. Which ailment is he suffering from? Discuss its etiology, clinical signs and symptoms, metabolic changes, complications and dietary management.

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B.Sc. (Nutrition and Dietics) (Sem.-4)
MATERNAL AND CHILD NUTRITION
Subject Code : BSND-222-18
M.Code : 79522
Date of Examination : 07-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) RDA
- b) Any TWO physiological changes during pregnancy.
- c) Foetus
- d) Galactagogues
- e) Colostrum
- f) Premature
- g) IYCF practice
- h) Breast milk substitutes
- i) Weight gain as an indicator of growth and development in an infant.
- j) Low term babies



SECTION-B

2. Discuss the importance of maternal nutrition.
3. Discuss the nutritional requirements of a lactating mother.
4. Throw light on the formulae foods.
5. Discuss the advantages of artificial feeding.
6. Write a note on feeding of premature babies.

SECTION-C

7. Write a note on the complications and dietary management during pregnancy.
8. Critically analyze the advantages and disadvantages of breastfeeding.
9. Discuss the process of weaning along with the supplementary feeding practice.

C/2

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B.Sc. (Nutrition & Dietetics) (Sem.-4)

RESEARCH METHODOLOGY

Subject Code : BSND-227-18

M.Code. : 79527

Date of Examination : 26-05-23

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is **COMPULSORY** consisting of TEN questions carrying TWO marks each.
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3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

I. Write briefly :

- a. Research problem
- b. Quantitative versus Qualitative research
- c. Analytic studies
- d. Judgement sampling
- e. Observation method
- f. Editing and Coding
- g. Health indicators
- h. Level of significance
- i. Rating scale
- j. SPSS



SECTION-B

2. How to formulate a Research Problem? Why it is important to formulate a research problem? Explain.
3. Why tabulation is important in presenting the statistical data? Explain various types of tables used for presenting the data.
4. Write a short note on :
 - a) Histogram
 - b) Scatter graph
5. What do you mean by reference values? Give two examples of any reference values you may have come across in your study of dietetics.
6. Discuss different types of questionnaires. Describe briefly the characteristics of a good Questionnaire.

SECTION-C

7. Explain the types of analytic studies in detail.
8. What do you understand by Interview method? Discuss various types of interviews with their merits and demerits.
9. Write a note on :
 - a) Documents
 - b) Rating scale.

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**B.Sc. - Honours (Nutrition and Dietetics) (Sem.-4)
FOOD STANDARDS AND QUALITY CONTROL**

Subject Code : BSND221-18

M.Code : 79521

Date of Examination : 24-05-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
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SECTION-A

1. Explain the following:

- a) Food standard
- b) Finished product
- c) Phytates
- d) Full form of GHP and GMP
- e) Examples of FOUR chemical hazards
- f) Main objective of codex alimentarius
- g) GRAS and 2 examples
- h) Adulteration tests done in milk
- i) Bureau of Indian Standards
- j) Sensory evaluation.



SECTION-B

2. Define food quality. Discuss the selection of sensory panel for evaluation.
3. Discuss the different types of food hazards which affect food quality.
4. Discuss the objectives of WHO and FAO in food laws.
5. Write a note on classification and coding of food additives.
6. What do you understand by food adulteration? Explain its classification?

SECTION-C

7. Write a detailed note on various chemical methods for determination of food quality of foods.
8. Explain in detail, the concept, principles and managing system of HACCP.
9. **Explain:**
 - a) Simple tests for any FIVE foods for adulteration
 - b) FSSAI

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B.Sc. Honours (Nutrition and Dietetics) (Sem.-4)

CLINICAL NUTRITION

Subject Code : BSND-223-18

M.Code : 79523

Date of Examination : 19-05-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a. Disease
- b. Diet therapy
- c. Soft diet
- d. Duodenal ulcer
- e. Types of hepatitis
- f. HbA1C
- g. Hyperglycemia
- h. Plaque
- i. Oliguria
- j. Glomerulus



SECTION-B

2. What do you understand by dietetics and discuss the goals of diet therapy?
3. Discuss the etiology, clinical signs, symptoms and dietary management of diarrhea.
4. Discuss the etiology, clinical signs, symptoms and dietary management of hepatitis.
5. Discuss the etiology, clinical signs, symptoms and dietary management of atherosclerosis.
6. Discuss the etiology, clinical signs, symptoms and dietary management of glomerulonephritis.

SECTION-C

7. a. Discuss the therapeutic adaptations of normal diet
b. Write a note on clear fluid and full fluid diet.
8. Ram, age 32 works in a multinational company. He has not been able to pass his stools for nearly three days. What ailment is Ram suffering from? As a dietician, explain Ram the etiology, clinical signs, symptoms, metabolic changes and dietary management of it.
9. Raj after his blood test came to know that H is HbA1C is 8.7 Which disease is he suffering from? Discuss its etiology, clinical signs and symptoms, metabolic changes, complications and dietary management.

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B.Sc. Hons. (Nutrition and Dietetics) (Sem.-4)

MATERNAL AND CHILD NUTRITION

Subject Code : BSND222-18

M.Code : 79522

Date of Examination : 17-05-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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SECTION-A

1. Write briefly :

- a. Write about the advantage and disadvantage of Weaning.
- b. Define Colostrum and advantage of Breast milk.
- c. Write about maternal nutrition and foetal outcome.
- d. Define Lactating mother and its energy and protein requirement.
- e. Explain Indian Regulation of marketing of breast milk substitutes.
- f. Define RDA, BMI, Balance diet as per ICMR.
- g. Write about the feeding pattern of low term babies.
- h. List the different preparation suitable for the infants.
- i. Write about the importance of maternal nutrition.
- j. Explain nutritional requirements for lactating mother mainly iron, calcium as per RDA 2020.



SECTION-B

2. Explain relationship between Latest RDA 2020 in context to infant nutrition.
3. Explain the physiological change and biochemical change during pregnancy.
4. Develop a diet plan for lactating mother. Also explain the physiological change in lactation.
5. Explain National Guidelines on infant and young child feeding practices.
6. Write in detail about the marketing of Formulae foods and its advantage and disadvantage.

SECTION-C

7. Write the difference between :
 - a) Feeding of Preterm Babies and Premature Babies.
 - b) Artificial Feeding and Supplementary Feeding.
8. Plan a diet plan for pregnant women for 3rd trimester in considers to its nutrition needs. Also explain complications of pregnancy.
9. Write in detail :
 - a) Nutrition needs of infants and guidelines for breast feeding
 - b) Growth and development of infants.

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