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Total No. of Questions : 09

Total No. of Pages : 02

B.Sc. Hons. (Nutrition and Dietetics) (Sem.–2)

BASIC OF COOKING

Subject Code : BSND-121-18

M.Code : 77755

Date of Examination: 05-05-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN Multiple Choice 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. **Answer briefly:**

a) How do kitchen uniforms contribute to hygiene and safety in the kitchen?

b) How can a balanced nutrition plan impact an individual's daily life?

c) How does a person's diet affect their long-term health and lifestyle?

d) Can you explain the techniques and applications of tempering in culinary arts?

e) How arrowroot help in cooking?

f) How does essence enhance the flavour of dishes and when is it typically added?

g) How does the application of heat differ in baking compared to grilling or frying?

h) Can you provide examples of cooking techniques that heavily rely on conduction?

i) How does efficient food production impact the quality and safety of food products in the market?

j) How does braising affect the texture and flavour of meats or vegetables?

SECTION - B

2. What is dry heat method cooking and what sets it apart from other cooking techniques?

3. What recent advancements have been made in the design and functionality of hospital kitchen facilities?

4. How do walk-in refrigerators and freezers support the storage of food in hospital kitchens?

5. What are some other commonly used thickening agents in cooking and when are they employed?

6. Could you elaborate on the advantages and limitations of microwave cooking?

SECTION - C

7. What is stock? Write down five liters of standard recipe of Brown mutton stock.

8. What do you understand by the term Binding agents? Write some of the binders used in kitchens for cooking.

9. Write in detail about sauces, write down the three derivatives of each mother sauce.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (N&D) (Sem.–2)

FOOD PROCESSING AND PRESERVATION

Subject Code : BSND-122-18

M.Code : 77756

Date of Examination : 19-05-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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. Answer briefly :

   a) Mold

   b) Freezing Curve

   c) Thawing

   d) Pasteurization

   e) Mechanical Drying

   f) Ionizing

   g) Semi Perishable foods

   h) Units of radiation.

   i) Food Intoxication

   j) Cool Storage

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SECTION - B

2. *"Freezing is an ancient method of preserving food"*. Comment.

3. Write a short note on Class I and Class II Preservatives.

4. What is evaporation? What are the factors that affect evaporation? Enlist the names of evaporators used in food.

5. Explain the uses of radiation in preservation of food.

6. With examples explain the importance of drying and dehydration in preservation of food.

SECTION - C

7. Briefly explain the scope and importance of Food Preservation. Give the historical evolution for Food Processing.

8. What is freezing? What is the different change that takes place during freezing? What are the principles of freezing?

9. What is thermal processing? How does it help in preservation of food?

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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Nutrition and Dietetics) (Sem.–2)

FOOD CHEMISTRY

Subject Code : BSND-123-18

M.Code : 77757

Date of Examination: 22-05-2025

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. **Answer briefly:**

   a) Chemistry

   b) Shelf life

   c) Refractive index

   d) Fat mimetics

   e) Essential amino acids

   f) Cellulose

   g) Monosaccharides

   h) Importance of vitamin C.

   i) Processed flavours

   j) Sedimentation as a property of proteins.

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SECTION - B

2. Write a note of food chemistry and composition of food.

3. Discuss the effect of frying of fats.

4. **Explain the following properties of proteins :**

   a) Denaturation

   b) Viscosity.

5. Throw light on the oxidation reduction reactions of carbohydrates with acids and alkalis.

6. Define flavor. Discuss the basic tastes.

SECTION - C

7. a) Explain water activity and packaging and water activity and shelf life?

   b) Explain saponification and iodine value of fats?

8. **Explain in detail :**

   a) Classification of carbohydrates

   b) Foaming property of proteins.

9. Discuss in detail, the various types of flavours.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. Hons. (Nutrition and Dietetics) (Sem.–2)

FOOD PACKAGING

Subject Code : BSND-124-18

M.Code : 77758

Date of Examination : 26-05-2025

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. Answer briefly :

   a) Labelling

   b) Packaging

   c) Biodegradable

   d) Recycle

   e) Name any two oils.

   f) Name any two food packaging laws.

   g) CFB

   h) Cartoning systems

   i) Bursting strength

   j) Oxygen permeability

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SECTION - B

2. Write a note on different types of closures.

3. Throw light on lamination and biodegradable plastics.

4. Discuss the package designing for dry and moisture sensitive foods and thermally processed foods.

5. Explain the procedure for testing tensile strength, carbon dioxide permeability and grease resistance or food packaging.

6. Throw light on seal and shrink packaging machine and FFS machine.

SECTION - C

7. Write a detailed note on barcodes and other types of markings done while food packaging is done.

8. Write a detailed note on tin free cans, types of cans and metallic films in detail.

9. a) Explain the package design for animal foods as well as fats and oils.

   b) Write a short note on vacuum and controlled atmosphere packaging systems.

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Total No. of Questions : 09

B.Sc. – Hons.(Nutrition and Dietetics) (Sem.–2)

ENVIRONMENTAL SCIENCE

Subject Code : EVS-102-18

M.Code : 77762

Date of Examination : 29-05-2025

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. **Answer all parts of the question :**

a) Define the multidisciplinary nature of environmental studies.

b) What is an ecosystem? Mention its two functions.

c) Name two renewable and two non-renewable energy resources.

d) List two major biogeographic zones of India.

e) Explain the term "ecological succession."

f) State two causes of land degradation.

g) What is acid rain? Mention one impact on agriculture.

h) Name any two international environmental agreements.

i) What is the role of biodiversity in ecological services?

j) Mention two key features of the Environment Protection Act.

SECTION - B

2. Discuss the causes and impacts of deforestation, focusing on biodiversity and tribal populations.

3. Explain the structure and function of a grassland ecosystem.

4. Describe the main causes and control measures for water pollution with examples.

5. Highlight the ethical values associated with biodiversity conservation in Indian culture.

6. Write a brief note on the impacts of human population growth on environmental health.

SECTION - C

7. Discuss the impacts of ozone layer depletion and global warming on human health and agriculture.

8. Explain the significance of in-situ and ex-situ biodiversity conservation techniques with examples.

9. Write a detailed note on disaster management strategies for floods and earthquakes.

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B.Sc. (Nutrition & Dietetics) (Sem.–2)

BASICS OF COMPUTERS

Subject Code : BSND-128-18

M.Code : 77763

Date of Examination: 03-06-2025

Time : 3 Hrs. Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying ONE mark each.
2. SECTION-B contains FIVE questions carrying $2^1/_2$ (Two and Half) marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying FIVE marks each and students has to attempt any TWO questions.

SECTION-A

1. Answer the questions given below in brief:

   a) What is data?

   b) What is application software?

   c) What is Pixel?

   d) What is printer?

   e) What is data processing?

   f) Describe the keyboard as an input device.

   g) What is BIT?

   h) What is cache memory?

   i) What is the role of interpreter?

   j) What is compiler?

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SECTION - B

2. Discuss any five-application area of Computer systems.
3. Discuss any five input devices in detail.
4. Differentiate between primary and secondary memory.
5. Discuss any two application of touch screen.
6. Discuss the importance of system software in detail.

SECTION - C

7. Explain the various limitations of computer system in detail.
8. Discuss Impact and Non-Impact printers in detail.
9. Draw and Explain the Block diagram of computer in detail.

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Total No. of Questions : 09 Total No. of Pages : 02

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

FOOD STANDARDS AND QUALITY CONTROL

Subject Code : BSND221-18

M.Code : 79521

Date of Examination : 06-05-2025

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. Food quality

   b. Organoleptic evaluation

   c. Food grading

   d. GMP

   e. Physical hazards

   f. Meaning of Critical Control Points.

   g. Objective of Food Safety Management System.

   h. BIS

   i. Adulteration test for honey.

   j. Adulteration test for coffee.

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SECTION - B

2. Throw light on the chemical methods to determine food quality.
3. What do you understand by food toxicants? Discuss its various types.
4. Explain the objectives of WHO and FAO to manage food quality.
5. Write a note on GRAS.
6. Write a note on Safety of food additives.

SECTION - C

7. Write a detailed note on the sensory evaluation of food products.
8. Explain the concept of HACCP system.
9. **Write a short notes on :**

   a. GHP and AGMARK.

   b. Standards for product quality and safety.

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Total No. of Questions : 09

Total No. of Pages : 02

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

MATERNAL AND CHILD NUTRITION

Subject Code : BSND222-18

M.Code : 79522

Date of Examination : 20-05-2025

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. Nutrition

   b. Pregnancy

   c. Weaning

   d. Preterm baby

   e. Any two physiological changes during pregnancy.

   f. Placenta

   g. Nutrients in colostrum

   h. Two important guidelines during breastfeeding.

   i. Growth

   j. Food items given as supplementary foods.

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SECTION - B

2. Why is maternal nourishment important?

3. Discuss the physiological changes which happen in a mother during lactation.

4. Give an overview of formulae foods and their marketing.

5. What do you understand by artificial feeding? Discuss its advantages.

6. Write a note on feeding of premature babies.

SECTION - C

7. Write a detailed note on physiological and biochemical changes that occur during pregnancy.

8. Discuss the nutritional needs of an infant with special emphasis on breast milk and its advantages.

9. Write a detailed note on supplementary feeding, its advantages as well as disadvantages.

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Total No. of Questions : 09

B.Sc. (Nutrition and Dietics) (Sem.–4)

CLINICAL NUTRITION

Subject Code : BSND-223-18

M.Code : 79523

Date of Examination : 23-05-2025

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) Nutrition

   b) Difference between soft fluid and clear fluid diet.

   c) Soluble fibre

   d) SGOT

   e) Polydipsia and polyphagia

   f) Blood pressure

   g) Nephron

   h) Calculi

   i) Difference between gastric and duodenal ulcers.

   j) Any four important symptoms to know the patient is suffering from constipation.

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SECTION-B

2. What do you understand by clinical nutrition?

3. Explain in detail, any TWO specially modified therapeutic diets.

4. Write a note on etiology, symptoms and dietary management of ulcerative colitis.

5. Write a note on etiology, symptoms and dietary management of atherosclerosis.

6. Write a note on symptoms and dietary management of renal failure.

SECTION-C

7. Ramesh has high fever and abdominal pain. The color of urine is dark and stools is light. Bilirubin levels were as high as 4.3mg/dL. What ailment is he suffering from? Discuss in detail, its causes, clinical signs, symptoms and dietary management.

8. Discuss in detail, the causes, clinical signs, symptoms and dietary management of diabetes mellitus.

9. Write a detailed note on therapeutic adaptations of a normal diet.

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B.Sc. Hons. (Nutrition & Dietetics) (Sem.–4)

RESEARCH METHODOLOGY

Subject Code : BSND227-18

M.Code. : 79527

Date of Examination : 27-05-2025

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. Descriptive research design

   b. Blueprint of any research process.

   c. Attitude scale

   d. Methods of sampling.

   e. Organization of data

   f. Cross tabulation of data

   g. Significance value

   h. Sampling testing technique

   i. Data management and analysis

   j. Hypothesis testing

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SECTION - B

2. What do you mean by research design? Explain various types of research designs.

3. Explain various methods of probability sampling.

4. **Write a short note on following :**

   a. Strategies used in any Research.

   b. Rating scale

5. Define data analysis with its features.

6. How collected data is presented before users?

SECTION - C

7. How an investigator can ensure the validity of any diagnostic tests conducted by him during any course of investigation?

8. Draft a questionnaire for evaluating the dietary habits of working women.

9. Why is it significant to present the data in layman language? What are the parameters of a good report presentation? Discuss in detail.

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Total No. of Questions : 09

B.Sc. Hons. (Nutrition and Dietetics) (Sem.–8)

CONVENIENCE AND HEALTH FOODS

Subject Code : BSND 426a-18

M.Code : 92635

Date of Examination : 06-05-2025

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. RTE food

   b. Freeze drying

   c. Difference between cereals and millets.

   d. Dehydrated products

   e. Self heating systems

   f. Nutritional importance of millets.

   g. Health benefits of soya.

   h. Traditional cereal

   i. Any two problems in marketing processed foods.

   j. Any two limitations of convenience foods.

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SECTION - B

2. Discuss the need of convenience foods in today's time.

3. What do you understand by healthy foods? Classify and explain.

4. Write a detailed note on the retort food pouches used in the food industry.

5. Write a note on breakfast cereals and pasta products made using millets.

6. What is the scope of pulses in convenience foods?

SECTION - C

7. Write a detailed note on cereals based convenience foods.

8. Discuss the special needs and problems with respect to processed foods.

9. **Write note on any one :**

   a. Cereal based convenience foods.

   b. Milk based convenience foods.

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Total No. of Questions : 09

Total No. of Pages : 02

Bachelor of Science - Honours (Nutrition and Dietetics)(Sem.–8)

DRUG NUTRIENT INTERACTIONS

Subject Code : BSND 423-18

M.Code : 92632

Date of Examination : 23-05-2025

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

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

SECTION - A

1. Write briefly :

   a) Enteral Nutrition

   b) Appetite suppressing drugs

   c) Drug related metabolic disorders.

   d) Herbal supplements

   e) Effect of drugs on nutrients.

   f) Types of drugs.

   g) Dietary counseling to prevent food drug interactions.

   h) Computer applications in management of interactions.

   i) Monitoring nutritional status.

   j) Drug nutrient interaction

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SECTION - B

2. Explain the mechanism of various drugs.
3. Discuss the interaction of dietary supplements with drugs.
4. Write a note on effect of malnutrition and drug interaction.
5. Discuss the role of dietary counseling to prevent food drug interactions.
6. Explain the role of drug therapy with utilization of nutrients.

SECTION - C

7. Discuss the effect of alcohol consumption on nutrients.
8. Explain the role of physical examination for drug induced malnutrition.
9. Write a note on drug induced metabolic alterations in patients on enteral feeding.

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Total No. of Pages : 02

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B.Sc. - Honors (Nutrition and Dietetics) (Sem.–8)

NUTRITION IN EMERGENCIES

Subject Code : BSND 422-18

M.Code : 92631

Date of Examination : 27-05-2025

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

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

SECTION - A

1. Write briefly :

   a. TWO main priorities during drought.

   b. Food shortage

   c. Emergency

   d. Communicable diseases

   e. Policy

   f. Difference between short and long emergencies.

   g. Under-nutrition

   h. Hygiene

   i. Therapeutic diet

   j. Any ONE nutritional deficiency disease.

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SECTION - B

2. Throw light on starvation occurring due to floods.

3. Discuss the effect of inanition.

4. How can supplementary feeding help in such situations?

5. Give an overview of therapeutic feeding done during emergencies.

6. Discuss the issue of hygiene during emergencies.

SECTION – C

7. Write a note on the historical perspectives of nutrition during emergency.

8. ***'Water and fuel supply are important in emergency situations'.*** Discuss.

9. Discuss in detail about any ONE major deficiency disease in emergencies.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc - Honours (Nutrition and Dietetics)(Sem.–8)

DIET THERAPY AND NUTRITION SUPPORT-II

Subject Code : BSND 421-18

M.Code : 92630

Date of Examination : 31-05-2025

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. Metabolic changes

b. Diet therapy

c. Reactive Oxygen Species

d. Fatty streaks

e. Major burns

f. Surgery and its types

g. Symptoms (list) of calculi.

h. Causes of HIV

i. Chemotherapy

j. Asthma

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SECTION - B

2. Discuss the etiology and symptoms of any one respiratory disease.

3. Discuss the etiology and symptoms of IHD.

4. Write a note on symptoms and dietary management in case of major burns.

5. Discuss the etiology and dietary management for trauma.

6. Explain the area of lifestyle management for a person suffering from cancer.

SECTION - C

7. Write a detailed note on etiology, symptoms, dietary and lifestyle management for a patient suffering from Gout.

8. The cholesterol and triglycerides levels in Ramesh, aged 56 years are 335mg/dL and 343 mg/dL respectively. What ailment is he suffering from? Discuss the etiology, symptoms, dietary and lifestyle management for it.

9. Write a detailed note on etiology, symptoms, dietary and lifestyle management for a patient suffering from HIV.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

8. a) Explainin detail the deficiencydiseases associatedwith vitamins. Include the dietary sources of each vitamin.

   b) Define flavor enhancers and explain their importance in food.

9. a) Explain the process of protein denaturation. Discuss the factors that cause denaturation and how it affects the structure properties of proteins in food systems?

   b) Describe the major chemical reactions of carbohydrates (Maillard reaction and oxidation). Explain their significance in food processing and product quality.

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Total No. of Pages : 03

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B.Sc.Hons.(Nutrition and Dietetics)(Sem.–2)

FOOD CHEMISTRY

Subject Code :BSND-123-18

M.Code :77757

Date of Examination:08-12-2025

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. **Answer briefly:**

a) What is hydrogen bonding? How it occurs in structure of water?

b) How does the molecular structure of ice differ from liquid water?

c) What kind of glycosidic linkages occur in starch?

d) What are the modified starches? How are they useful?

e) What is the effect of repeated frying on foods?

f) What are vitamins? How are these classified?

g) Define Umami. Give one example.

h) What is the difference in starch and glycogen?

i) What is interesterification? Give one example.

j) What is the tertiary structure of protein?

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SECTION - B

2. a) Define the following terms :

i) Smoke point

ii) Polenske value

iii) Peroxide Value

iv) Saponification value

v) Iodine value.

b) Explain the molecular structure of water and discuss how its unique bonding and geometry contribute to its physical properties?

3. a) Explain the principle and working of electrophoresis. How do factors such as pH, buffer compositionand molecular size influence the movement of charged particles during the process?

b) Write a short note on surface tension of water. What is the usefulness of this property of water?

4. a) Explain the role of gums in food systems. Discuss any two functional properties of it.

b) Explain the functional properties of proteins in emulsification and foaming. Give one example of each property in a food product.

5. a) Explain the structure and functional properties of pectin. How is it used in food products and give one example of its application?

b) Write in detail about the secondary and tertiary structure of proteins.

6. a) What are lipids? How are these classified? Explain in detail the simple lipids.

b) What is fat reversion? Explain the causes of reversion in edible oils and fats and its effects on flavor and quality.

SECTION - C

7. a) What is rancidity? Explain the different types of rancidity in foods, including their causes, chemical changes involved and effects on food quality.

b) Explain in detail the various chemical properties of lipids.

Roll No. | | | | | | | | | | |

Total No. of Questions : 09

Total No. of Pages : 02

B.Sc. Hons (Nutrition and Dietics) (Sem.–1)

PRINCIPLES OF HUMAN NUTRITION

Subject Code : BSND111-18

M.Code : 77208

Date of Examination: 09-01-2026

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. 4 foods that helps in body building.

   b. Nutrition

   c. RDA

   d. Reference Man

   e. Nutrition education

   f. Protein sparing action

   g. Kwashiorkor

   h. Rickets

   i. Night blindness

   j. MUFA

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(S2)-2212

SECTION - B

2. Throw light on non-conventional foods.

3. Write a note on the functions of water in human nutrition.

4. Discuss marasmus as deficiency of energy among children.

5. Write a note on sources of saturated fats, MUFA and PUFA.

6. Discuss the functions and food sources of Vitamin D.

SECTION - C

7. Write a detailed note on dietary survey as a parameter for nutritionalstatus.

8. **Write notes on any TWO :**

   a. Non-conventional foods and their use.

   b. Metabolism of carbohydrates.

   c. Protein energy malnutrition.

9. **Discuss the functions, food sources of the following :**

   a. Vitamin A

   b. Calcium

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Roll No. | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 09

Bachelor of Science-(Honours) (Nutrition and Dietetics) (Sem.–1)

HUMAN PHYSIOLOGY

Subject Code : BSND-114-18

M.Code : 77211

Date of Examination : 12-01-2026

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) Define systolic and diastolic pressure.

   b) Mention two functions of pancreas.

   c) What are rods and cones?

   d) State any two functions of blood.

   e) Define micturition reflex.

   f) Name the types of muscle tissue.

   g) Name two hormones involved in female reproduction.

   h) Name the hormones secreted by adrenal cortex.

   i) Draw and label a simple diagram of neuron.

   j) What is a synapse?

SECTION - B

2. Discuss the physiology of hearing.

3. Describe the physiology of muscle contraction.

4. Explain hormonal functions of thyroid gland.

5. Explain the cardiac cycle.

6. Write short notes on digestion of carbohydrates.

SECTION - C

7. Describe the mechanism of respiration and gaseous exchange in lungs.

8. Explain hormonal regulation of menstrual cycle.

9. Describe the structure of nephron and explain the formation of urine.

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Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

Bachelor of Science (Honours) (Nutrition and Dietics) (Sem.–1)

FOOD MICROBIOLOGY & FOOD SAFETY

Subject Code : BSND-113-18

M.Code : 77210

Date of Examination : 16-01-2026

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. Food safety

   b. Any TWO factors affecting growth of microorganisms.

   c. Any TWO ways to check spoilage in fish.

   d. Manufacturing of vinegar.

   e. Difference between in food poisoning and food infection.

   f. Chemical hazards in food safety.

   g. Difference qualitative and quantitative methods for controlling micro-organism's growth.

   h. Any TWO physical agents used to control contamination.

   i. List any four important parameters of personal hygiene.

   j. TQM

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SECTION - B

2. Discuss the importance of fungus in food industry.

3. With the help of a diagram, write a note on bacterial growth curve.

4. Write a detailed note on any two food borne infections due to food borne diseases.

5. Discuss the factors affecting food safety.

6. What do you understand by ISO? Throw light on ISO series.

SECTION - C

7. Write a detailed note on the history and development of food microbiology.

8. **Write notes on :**

   a. Biological hazards in food safety.

   b. Hurdle technology

9. ***"Micro - organisms are a boon and bane for the food industry".*** Write notes on spoilage of the following foods due to micro - organisms :

   a. Eggs

   b. Canned foods

   c. Fruits and vegetables

   d. Cereals

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Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. Hons. (Nutrition and Dietetics) (Sem.–1)

INTRODUCTION TO FOOD SCIENCE

Subject Code : BSND-112-18

M.Code : 77209

Date of Examination : 19-01-2026

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) Alpha Amylase

   b) Germination

   c) MSG

   d) Pungency

   e) Euginol

   f) Papain

   g) Cold shortening

   h) 'Granary of India' is

   i) Canning Industry

   j) Homogenization

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SECTION - B

2. Explain the different functions of major and minor nutrients with the example and their calorific/energy values.

3. Discuss the processing methods used for the processing of pulses related to the anti-nutritional factors and explain three processing methods in detail.

4. Write the nutritive composition of wheat, name the storage protein and name the two different components of which protein is made up.

5. Write the classification of fruits with examples.

6. Explain the different parameters to assess the internal and external quality of eggs.

SECTION - C

7. Define carbohydrates. Discuss in detail about the classification of carbohydrates.

8. Write the nutritive composition of meat. Also, differentiate between red and white meat with examples.

9. Explain sources and functions of water in the human body.

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B.Sc.Honours (N&D)(Sem.–3)

NORMAL AND THERAPEUTIC NUTRITION

Subject Code : BSND211-18

M.Code : 78539

Date of Examination :18-11-2025

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. Meal

   b. Nutrition

   c. Any ONE modification of therapeutic diet.

   d. Any TWO physiological changes during lactation.

   e. Any THREE advantages of bottle feeding.

   f. Any TWO dishes for tiffin for pre-schooler and why?

   g. Need for calcium among adolescents.

   h. Difference between acute and chronic diarrhoea.

   i. BMI

   j. Polyuria andnocturia

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SECTION-B

2. List the food groups. Throw light on the various food groups and exchange list.

3. Explain the nutritional requirements for a school going children.

4. Throw light on the symptoms and dietary management of acute fever.

5. Ravi had a glass of 4 slices of wheat bread and had stomach pain and diarrhoea. What problem could he be suffering from? Discuss its symptoms and dietary management.

6. Discuss the importance of meal planning.

SECTION-C

7. Discuss:

   a. Food exchange list.

   b. Any ONE method of artificial feeding.

8. Write a detailed note on causes, symptoms and dietary management of peptic ulcers.

9. Write a detailed note on the development and nutritional requirements for diabetic person.

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B.Sc.Honours (N&D)(Sem.–3)

COMMUNITY NUTRITION

Subject Code :BSND212-18

M.Code : 78540

Date of Examination : 20-11-2025

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) Fluorosis

   b) Under Nutrition

   c) Clinical assessment

   d) CARE

   e) Kwashiorkor

   f) Vital Statistics

   g) Vitamin A deficiency (VAD)

   h) NNMB

   i) Nutrition education programme

   j) Iodine deficiency disorder

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SECTION-B

2. Explain in detail about biochemical assessment.

3. Write a note on the various diet survey methods.

4. Write in detail about the various iodine deficiency disorders.

5. Write a note on PEM.

6. Write the role and functioning of maternal and child health care services in India.

SECTION-C

7. Write about measuring food consumption of individuals.

8. Write a note on any two International agencies and specify their role in maintaining good health of general public.

9. Describe the role of international agency Food and Agricultural Organization (FAO) in combating malnutrition.

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Total No. of Questions : 09

B.Sc. (Nutrition and Dietectics) (Sem.–3)

HEALTH HYGIENE AND SANITATION

Subject Code : BSND213-18

M.Code : 78541

Date of Examination : 24-11-2025

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) Definition of hygiene.

   b) Disease

   c) Immunisation

   d) Importance of proper lighting in homes.

   e) Rodents

   f) Any two ill effects of soil impurities on health.

   g) Causes of diarrhea among humans.

   h) Quarantine

   i) Causes of air pollution.

   j) Accidental food poisoning.

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SECTION-B

2. Explain the concept, determinants and indicators of health.

3. Write a note on vector management.

4. Discuss the causes symptoms and control of Jaundice.

5. Given analysis on municipal health services.

6. Throw light on the purification of water at domestic level.

SECTION-C

7. a) How are health, hygiene and sanitation interrelated?

   b) Discuss the characteristics of good health and factors affecting it.

8. Write a detailed note on noise, its need, standards, types and effects on health.

9. Write a detailed note on removal and disposal of refuse and excreta.

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Total No. of Questions : 09

B.Sc.Hons. (Nutrition and Dietectics) (Sem.–3)

NUTRACEUTICALS, FUNCTIONAL FOOD & NUTRIGENOMICS

Subject Code : BSND217-18

M.Code : 78545

Date of Examination :27-11-2025

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) Difference between nutraceuticals and functional foods.

b) Types of nutraceuticals.

c) Difference between free radicals and antioxidants.

d) Protective effects of tea as functional beverage.

e) Omega-3 fatty acids.

f) Prebiotics

g) Name any 4 probiotics foods which are good for gut health.

h) Proteomics

i) Nucleotides

j) Mention functional foods that are helpful for hypertensive patients.

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SECTION B

2. Throw light on the need and scope of functional foods.

3. Discuss the usefulness of dietary fibres and carotenoids in the body.

4. Discuss the effects of processing of functional foods.

5. Explain the usefulness of probiotics with respect to human body.

6. Explain the basic concept of nutrigenomics.

SECTION C

7. Discuss the role of nutraceuticals for situations like cancer and stress.

8. Explain in detail the marketing and regulatory issues for nutraceuticals.

9. a. Explain the role of functional foods in terms of food applications and their health benefits.

   b. Explainthe concept of nutrigenomics with respect to obesity.

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Total No. of Questions : 09

B.Sc. (Nutrition and Dietics)(Sem.–4)

MATERNAL AND CHILD NUTRITION

Subject Code :BSND222-18

M.Code :79522

Date of Examination:04-12-2025

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. Nutrition

   c. Colostrum

   d. Any two advantages of breast milk.

   e. Preterm baby

   f. Any two advantages of artificial feeding.

   g. Weaning

   h. Any two physiological changes during pregnancy.

   i. Any two discomforts during pregnancy period.

   j. Any two important nutrients which must be taken and why during pregnancy.

SECTION - B

2. Why is infant nutrition important?

3. Throw light on the complications which may occur during pregnancy.

4. Discuss the guidelines followed for breastfeeding.

5. Discuss the disadvantages of artificial feeding.

6. Throw light on national guidelines for infant and young child feeding practices.

SECTION - C

7. a. Discuss the physiological changes that take place during pregnancy.

   b. Throw light on the nutritional requirements of a pregnant woman.

8. Explain the growth and development of an infant. Discuss the nutritional needs as well.

9. a. Throw light on feeding of premature babies.

   b. Discuss the regulations of marketing of breast milk substitutes in India.

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Total No. of Questions : 09

B.Sc. Hons. (Nutrition and Dietics)(Sem.–4)

CLINICAL NUTRITION

Subject Code :BSND223-18

M.Code :79523

Date of Examination :06-12-2025

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. Therapy

   b. Difference between full fluid and clear fluid diet.

   c. What do you understand by the term prevalence?

   d. Any two causes of constipation.

   e. Any two causes of liver cirrhosis.

   f. Any two symptoms if a patient is suffering from urinary calculi.

   g. HbAlC

   h. Glomerulus

   i. BUN and GFR

   j. What do you understand by the term colitis?

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SECTION - B

2. Throw light on the basic concepts of diet therapy.

3. Explain in detail as to what do you understand by the term clinical nutrition?

4. Discuss the etiology, symptoms and dietary management of diarrhoea.

5. Explain the etiology,symptoms and dietary management for atherosclerosis.

6. Throw light on etiology, symptoms and dietary management for a patient suffering from chronic glomerulonephritis.

SECTION - C

7. Explain in detail the routine hospital diets - regular, soft, full fluid and clear fluid diet.

8. Discuss the etiology, symptoms, complications and dietary management of hepatitis.

9. Discuss in detail the etiology, symptoms, complications and dietary management of any oneCardiovascular diseases **OR** renal failure.

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Total No. of Questions : 09 Total No. of Pages : 02

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

RESEARCH METHODOLOGY

Subject Code : BSND227-18

M.Code. : 79527

Date of Examination: 09-12-2025

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) General and Specific characteristics of research.

b) Different types of research design.

c) Review of literature.

d) Primary and Secondary data collection.

e) Experimental Designs.

f) Descriptive Statistics *vs* Inferential Statistics.

g) Correlation and Regression.

h) Data safety monitoring.

i) Oral and written Research Reports.

j) Need of Research Reports.

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SECTION-B

2. What is the criterion of a good research? Explain different types of research.

3. What is the role of literature review in formulating the statement of research problem and hypothesis of the study?

4. What are the different sources of collecting secondary data? Also, give their merits and demerits.

5. How does the tabulation and organization of data plays an important role while a research report is being prepared?

6. Explain in detail about reference values, health indicators and validity of diagnostic tests.

SECTION-C

7. "*Majority of the researchers make use of primary source of data and secondary source of data do not really contribute to a scientific inquiry*". Do you agree or disagree with this statement? Explain.

8. What are the fundamental ethical principles in research? How would you ensure the data safety monitoring?

9. a) What are the different methods of observation?

   b) What is the contribution of measure of central tendency, measure of dispersion in analysis and presentation of data?

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Total No. of Pages : 02

Total No. of Questions : 09

Bachelor of Science - Honours (Nutrition and Dietetics)(Sem.–5)

INSTITUTIONAL FOOD SERVICE MANAGEMENT

Subject Code :BSND311-18

M.Code :90839

Date of Examination :19-11-2025

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. **Explain in 50 words :**

   a) Job Evaluation

   b) Organization

   c) Operational Budget

   d) Cyclic Menu

   e) Cost concept

   f) Portion Size

   g) Purchase Specification

   h) Blind receiving

   i) Personal Hygiene

   j) Physical Inventory

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SECTION-B

2. Basics factors in Institutional Meal Planning.

3. List five equipment of portion control with their uses.

4. Functions and Tools of Management.

5. Different types of stores available in Food service areas

6. Give the specification of Tilting Pan.

SECTION-C

7. ***"Menu planning plays a major role in food industry".*** Discuss with reference to Airline and Railway catering.

8. ***"Inventory control plays an important role in cost reduction".*** Justify the statement and Discussthe various inventory control techniques used in catering industry.

9. What is Purchasing? Briefly explain the various method of purchasing used in catering industry.

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Total No. of Questions : 09

B.Sc. (Hons.) (Nutrition and Dietetics)(Sem.–5)

NUTRITION FOR SPECIAL GROUPS

Subject Code :BSND312-18

M.Code : 90840

Date of Examination:21-11-2025

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) What are contagious diseases?

b) What is Nutrition deficiency?

c) What is meant by refugees?

d) What are natural calamities?

e) What are minority ethnic communities?

f) What is meant by asylum seekers?

g) What is the relationship of nutrition and society?

h) What is meant by population below poverty line?

i) What is a nutritional need of defense personnel?

j) What is the role of nutrition to promote health?

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SECTION - B

2. Discuss the health status of children in India.

3. What is the relationship of nutrition with special needs?

4. Discuss the ways to manage hygiene problems for special groups.

5. Discuss the special nutritional needs of asylum seekers and homeless people.

6. Discuss the nutrition requirements during famines and floods.

SECTION - C

7. What are the major Nutritional deficiency orders? Discuss the ways to control communicable diseases.

8. Discuss the nutritional requirements for industrial workers, sports persons and astronauts.

9. Discuss the latest trends in vegetarianism and current nutrition & health status of womenin India.

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Total No. of Questions : 09

Total No. of Pages : 02

B.Sc. - Honours (Nutrition and Dietetics) (Sem.–5)

ENTREPRENEURSHIP DEVELOPMENT AND BUSINESS MANAGEMENT

Subject Code :BSND-313-18

M.Code : 90841

Date of Examination : 26-11-2025

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. **Explainbriefly :**

   a. Difference between entrepreneurship and intrapreneurship.

   b. First generation entrepreneur.

   c. Problems in Entrepreneurship Development.

   d. Role of motivation to an entrepreneur.

   e. Problems with small entrepreneur.

   f. Role of marketing in business.

   g. Types of IPR.

   h. Equity Capital.

   i. Objectives of promoting new Start Ups.

   j. Define micro businesses.

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SECTION - B

2. Discuss the role of entrepreneur behavior.

3. Explain the reasons of obtaining IPR.

4. What are the problems associated with budgeting with small entrepreneurs.

5. Explain the steps in financial marketing in modern enterprises.

6. Discuss the need of entrepreneurial development.

SECTION - C

7. Explain the various types of entrepreneurs with relevant examples from Indian scenario.

8. Discuss the various challenges faced during creation and enterprise management.

9. Explain the various sources of funding available to modern business houses.

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Total No. of Questions : 09

Total No. of Pages : 02

B.Sc.-Honours (Nutrition and Dietetics) (Sem.–7)

SPORTS NUTRITION

Subject Code : BSND 411-18

M.Code : 92624

Date of Examination : 18-11-2025

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. Lactic acid

   b. Energy

   c. Difference between macronutrients and micronutrients.

   d. Aerobic energy system

   e. Dehydration

   f. Importance of calcium in sports persons.

   g. Amenorrhea

   h. Difference between nutrition supplements and ergogenic aids.

   i. Any two important functions of electrolytes in sports.

   j. Strength in sports.

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SECTION - B

2. Write a brief note on the importance of sports nutrition.
3. Explain the ATP-CP Energy system and oxygen energy system.
4. Discuss the inter-relationship between nutrition and physical performance.
5. Discuss the role of vitamins with special emphasis on antioxidants in sports.
6. Throw light on sports food.

SECTION - C

7. Write notes on :

   a. Iron deficiency among athletes.

   b. Energy intake and exercise.

8. Raman is involved in various sports. Write a detailed note on his nutritional requirement keeping in mindhis involvement indifferent types of sports.
9. Explain the role of ergogenic aids with respect to sports nutrition.

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Total No. of Questions : 09

Bachelor of Science - Honours (Nutrition and Dietetics) (Sem.–7)

DIET THERAPY AND NUTRITION SUPPORT-I

Subject Code :BSND412-18

M.Code :92625

Date of Examination : 20-11-2025

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. Nutrition Support

   b. Dietetics

   c. FFQ

   d. Relevance of medical history.

   e. Hepatitis

   f. Two main causes of acute pancreatitis.

   g. Reflux

   h. Diverticulum

   i. Difference between Crohn's disease and Ulcerative colitis.

   j. Any two markers seen in blood reports for fatty liver.

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SECTION - B

2. Throw light on the structure and functions of dietary department.

3. What all parameters will you take down for clinical information and medical history?

4. Explain the dietary and lifestyle management for an adult woman suffering from pancreatitis.

5. Discuss the causes and symptoms of peptic ulcers.

6. Discuss the dietary and lifestyle management of colitis.

SECTION - C

7. What are the principles of dietetics? Discuss your role as a dietician as a part of the medical teamas well as outreach services along with the administration of the dietary department.

8. Write a detailed note on causes, symptoms, dietary and lifestyle management of grade three fatty livers.

9. Write a detailed note on the causes, symptoms, dietary and lifestyle management of GERD.

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Total No. of Questions : 09

Bachelor of Science - Honours (Nutrition and Dietetics) (Sem.–7)

GERIATRIC NUTRITION

Subject Code :BSND 413-18

M.Code :92626

Date of Examination : 24-11-2025

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. Ageing

   b. Difference between physiological and psychological.

   c. Constipation

   d. Anaemic

   e. Any 2 psychological changes in elderly.

   f. Post Prandial Glucose (PPG)

   g. Difference between enteral and parenteral nutrition.

   h. Calcium and Osteoporosis

   i. Acidity

   j. Role of antioxidants in cancer.

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SECTION - B

2. Throw light on the importance of geriatric nutrition.
3. Discuss the nutritional management of obesity.
4. How can you nutritionally manage coronary heart disease in elderly?
5. Throw light on bone fractures among geriatric population.
6. Discuss the nutritional management for cancer among elderly.

SECTION - C

7. **Discuss the nutritional and health changes as well as their management in elderly for :**

   a. Osteoporosis

   b. Malnutrition

8. Write a detailed note on enteral and parenteral nutrition support.
9. As per you, why is understanding of geriatric nutrition important? Discuss the nutritional management of diabetes among elderly population.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. Honours (Nutrition and Dietetics)s (Sem.–8)

CONVENIENCE AND HEALTH FOODS

Subject Code : BSND 426A-18

M.Code : 92635

Date of Examination : 19-11-2025

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) Define Convenience food.

   b) What are dehydrated products?

   c) Pen down some healthy convenience food.

   d) Pen down some canned convenience food.

   e) Pen down some milk based convenience food.

   f) Pen down the names of some millets.

   g) What is ready to eat food?

   h) What are ill effects of processed food.

   i) Discuss the limitation of convenience food.

   j) Pen down the nutritional content of ready to eat breakfast cereals.

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SECTION-B

2. Differentiate between convenience food and health food.

3. Discuss the health benefits of soyabean.

4. Discuss the nutritional importance of pulses.

5. Discuss the various methods of processing convenience food.

6. Pen down the nutritive value and health benefits of 5 millets.

SECTION-C

7. Discuss the special needs and problems in marketing of processed foods.

8. Define Health food. Discuss the types and classification of convenience food.

9. Discuss the types of cereal based traditional convenience food and snacks. Pen down the different types of packaging used for the same.

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Bachelor of Science - Honours (Nutrition and Dietetics)(Sem.–8)

DRUG NUTRIENT INTERACTIONS

Subject Code : BSND 423-18

M.Code : 92632

Date of Examination : 27-11-2025

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

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

SECTION - A

1. **Write briefly :**

   a. Drug

   b. Types of drugs.

   c. Pharmaceutics

   d. Malnutrition

   e. Obesity

   f. Enteral nutrition

   g. Any 2 drug related gastrointestinal disorders.

   h. Difference between herbal and dietary supplements.

   i. Food drug interaction.

   j. Any 2 important points to be kept in mind to prevent food drug interactions.

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SECTION - B

2. What is the basic concept of drug interaction?

3. Explain the drug therapy's relation with absorption of nutrients.

4. Throw light on appetite suppressant drugs.

5. Write a note on drug induced malnutrition.

6. Throw light on the role of herbal supplements with respect to drug interaction.

SECTION - C

7. Explain the relationship of drug therapy with intake, absorption and utilization of nutrients.

8. **Write a note on :**

   a. Nutrients which are commonly affected by drugs.

   b. Drug induced metabolic alterations in patients receiving intra nutrition.

9. Discuss the role of computer applications in management of nutrient drug interaction.

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Total No. of Pages : 02

B.Sc. - Honours (Nutrition and Dietetics) (Sem.–8)

NUTRITION IN EMERGENCIES

Subject Code : BSND 422-18

M.Code : 92631

Date of Examination : 29-11-2025

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

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

SECTION - A

1. **Write briefly :**

   a) Communicable diseases

   b) Mass feeding

   c) Social foods

   d) Public health and hygiene.

   e) Emergency due to war.

   f) Deficiency diseases.

   g) General food distribution.

   h) Fuel supplied during emergencies.

   i) Medium term emergencies

   j) Normal emergencies.

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SECTION - B

2. Explain how communicable diseases can be controlled?
3. Discuss the effect of wrong policies on starvation during emergencies.
4. Write a note on therapeutic feeding.
5. Discuss the role of fuel supplied during emergencies.
6. Explain the effect of short term and long term emergencies.

SECTION - C

7. Discuss the major deficiency diseases during emergencies.
8. Explain the historic perspectives of starvation and emergencies.
9. Write a note on public health and hygiene problems during emergencies.

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