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Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, September 2022

Home Science

XD – Food and Nutrition

HS 523 D – ADVANCED FOOD TECHNOLOGY AND ENGINEERING

(2021 Admission)

Time : 3 Hours

Max. Marks : 75

PART I

All questions carry equal marks. No answer should exceed **four** pages.

1. (a) Detail the processing technology of breakfast cereals.

OR

(b) Explain in detail, the application of biotechnology in improving the quality of food and nutrition.

2. (a) Briefly explain the application of freezing in fish processing and comment on the factors affecting quality of fish.

OR

(b) Explain different types of packaging materials used in food industries quoting examples.

(2 × 15 = 30 Marks)

P.T.O.



PART II

All questions carry equal marks. No answers should exceed **two** pages.

3. (a) Explain nutritional advantages of Single Cell Proteins.

OR

- (b) Briefly the quality parameters of meat.

4. (a) Explain the physio chemical properties of food.

OR

- (b) Explain the role of agencies involved in storage of food grains in India.

(2 × 10 = 20 Marks)

PART III

5. Answer any **five** questions not exceeding **one** page.

- (a) Espresso coffee.
(b) Dried egg powder.
(c) Food lose.
(d) Carbonated beverages.
(e) Candling of egg.
(f) Nutrigenomics.
(g) Textured Protein Products.

(5 × 5 = 25 Marks)



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Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, September 2022

Home Science

X D – Food and Nutrition / X E – Nutrition and Dietetics

HS 221 D/E – APPLIED FOOD SCIENCE

(2018 - 2020 Admission)

Time : 3 Hours

Max. Marks : 75

PART – I

All questions carry equal marks. Answer should not exceed **4** pages.

1. (a) Discuss the stages of sugar cookery with examples.

OR

(b) Discuss convenience foods. Elaborate their merits and demerits.

2. (a) Write an essay on the pigments of vegetables. Bring out the effects of heat, acids and alkaline on chlorophyll and anthoxanthin.

OR

(b) What are the different food additives used in the food industry, mentioning their applications.

(2 × 15 = 30 Marks)

P.T.O.



PART – II

All questions carry equal marks. No answer should exceed **2** pages.

3. (a) Discuss the impact of adulterated food on human health.

OR

- (b) Discuss the principals and methods of food preservation.

4. (a) How are pulses soaked and germinated What are the advantages?

OR

- (b) Discuss the importance of sensory panel and types of sensory tests.

(2 × 10 = 20 Marks)

PART – III

Write on any **five** of the following, **each** answer should not exceed **1** page.

5. (a) Irradiation
(b) Food Additives
(c) Emulsifying agents
(d) Food fads and fallacies
(e) Germination
(f) Denaturation of Proteins
(g) Homogenization

(5 × 5 = 25 Marks)



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Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, September 2022

Home Science

**X D – Food and Nutrition/
X E – Nutrition and Dietetics**

HS 521 D/E – APPLIED FOOD SCIENCE

(2021 Admission)

Time : 3 Hours

Max. Marks : 75

PART – I

Answer any **'two'**. No answer should exceed 4 pages.

1. (a) Explain the different methods of cooking.

OR

(b) Describe starch cookery and the factor affecting the same.

2. (a) Elaborate on the structure, cuts and postmortem changes of meat.

OR

(b) Describe the principles and discuss any five methods of food preservation.

(2 × 15 = 30 Marks)

P.T.O.



PART – II

Answer **any 'two'**. No answer should exceed 2 pages.

3. (a) Write an essay on the physical and chemical properties of fats.

OR

- (b) Comment on the processing of legumes.

4. (a) Elaborate on the merits and demerits of ready to eat foods.

OR

- (b) Describe the importance of fats in cookery and in our diets.

(2 × 10 = 20 Marks)

PART – III

5. Write any FIVE of the following each not exceeding one page.

- (a) Food Additives.
(b) Convenience foods and Fast Foods.
(c) Preparation of Cheese.
(d) Germination and its Advantages.
(e) Codex Alimentarius.
(f) Food Irradiation.
(g) Emulsifying agents in Food Industry.

(5 × 5 = 25 Marks)



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Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, September 2022

Home Science

XC – Extension Education

HS 523 C – DEVELOPMENT COMMUNICATION AND JOURNALISM

(2021 Admission)

Time : 3 Hours

Max. Marks : 75

PART – A

Answer **All**. No answer should exceed 4 pages.

1. (a) Elaborate on any four theories of development communication.

OR

(b) Discuss Social cognitive theory in light of the development communication.

2. (a) Elaborate on various sources of information in electronic media.

OR

(b) Describe the techniques of digital broadcasting.

(2 × 15 = 30 Marks)

PART – B

Answer **All**. No answer should exceed 2 pages.

3. (a) Distinguish between Commercial and Art cinema.

OR

(b) Elaborate on the process of production of radio news.

P.T.O.



4. (a) Explain various forms of folk media. Elaborate on its use in the development communication.

OR

- (b) Discuss the basic television production techniques.

(2 × 10 = 20 Marks)

PART – C

5. Answer any **'five'**. No answer should exceed **1** page.

- (a) Theory of Human motivation.
(b) Developmental journalism.
(c) Digital broadcasting.
(d) Community Radio.
(e) Print media.
(f) Traditional Media.
(g) Script for radio talk.

(5 × 5 = 25 Marks)



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Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, September 2022

Home Science

X D- Food and Nutrition

HS 522 D – NUTRITION THROUGH LIFE CYCLE

(2021 Admission)

Time : 3 Hours

Max. Marks : 75

PART – A

All questions carry equal marks. No answer should exceed 4 pages.

I. (a) A child requires relatively more calories and protein per kg body weight compared to adult person. Discuss. Explain the requirements of all other nutrients?

OR

(b) Physiological changes and iron loss from the body demands extra iron for adolescents. Comment on this and discuss requirements of other nutrients as well.

II. (a) It is advisable for the elderly men and women to consume high levels of fruits and green leafy vegetables, whole grains and less meat and cheese to ward off diseases. Explain this requirement and the other guidelines for feeding elderly.

OR

(b) Plan a balanced diet for a nursing mother using a ready reckoner. Give a note on nutritional requirements.

(2 × 15 = 30 Marks)

P.T.O.



PART – B

All questions carry equal marks. No answer should exceed **2** pages.

III. (a) Elaborate on the different methods to study the body composition of adults.

OR

(b) Exclusive breast feeding should be followed for the first 6 months by the mother for the infant – substantiate this statement.

IV. (a) Discuss the physiological change during old age and their consequence on health and nutrition.

OR

(b) Explain the immunity factors present in breast milk.

(2 × 10 = 20 Marks)

PART – C

V. Answer any **five** of the following. No answer should exceed **1** page.

(a) Baby Friendly Hospital Initiative.

(b) Physiological changes during lactation.

(c) Changes during puberty.

(d) Problems related to breast feeding.

(e) Dietary advice for expectant mothers.

(f) First thousand days of life.

(g) Effect of alcohol and smoking on foetal growth.

(5 × 5 = 25 Marks)



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Reg. No. :

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Second Semester M.Sc. Degree Examination, September 2022

Home Science

XC – Extension Education

HS 522 C : SOCIAL ENTREPRENEURSHIP

(2021 Admission)

Time : 3 Hours

Max. Marks : 75

PART – A

Answer any **two**. No answer should exceed **4** pages.

1. (a) Discuss on merits and demerits on entrepreneurship.

OR

(b) Write down a business project and steps in management.

2. (a) Explain the agencies that promotes entrepreneurship.

OR

(b) Explain the strategies for resource mobilization

(2 × 15 = 30 Marks)

P.T.O.



PART – B

Answer any **two**. No answer should exceed **2** pages.

3. (a) Discuss on social entrepreneurship.

OR

- (b) Discuss steps in project report writing.

4. (a) Discuss the role and function of KVIC.

OR

- (b) Detail on the need for environment scanning for launching an enterprise.

(2 × 10 = 20 Marks)

PART – C

5. Answer any **five**. No answer should exceed **one** page.

- (a) Cottage industries
(b) Role of Government in entrepreneurship
(c) Quality control
(d) Project formulation
(e) Sources of Project
(f) Manpower planning
(g) Entrepreneur versus enterprise

(5 × 5 = 25 Marks)

