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3 (Sem-5/CBCS) HSC HE 1/HE 3/HE 5

2021

(Held in 2022)

**HOME SCIENCE**

(Honours Elective)

**Answer the Questions from any one Option.**

**OPTION-A**

Paper : HSC-HE-5016

(**Food Science**)

DSE (H)-1

Full Marks : 60

Time : Three hours

***The figures in the margin indicate full marks for the questions.***

1. State whether the following statements are 'True' or 'False': 1×7=7
  - (a) The 'dark colour on the surface of breads is due to Maillard reaction.
  - (b) Blanching is a process of removing microorganisms from food.

*Contd.*

- (c) The headquarters of Food Safety and Standards Authority of India is located in Mumbai.
- (d) Emulsifiers are substances that are able to prevent the separation of oil and water in food.
- (e) Gluten is a mixture of two proteins, globulin and glutenin.
- (f) Yeasts are unicellular organisms.
- (g) Mayonnaise is an example of emulsion.

2. Write briefly on the following:  $2 \times 4 = 8$

- (a) Two properties of gel formation
- (b) Two objectives of Bureau of Indian Standards
- (c) Two characteristics of yeast
- (d) Two importance of food preservation.

3. Write short notes on: **(any three)**  $5 \times 3 = 15$

- (a) Role of microbes in food spoilage
- (b) Types of food emulsions with examples

- (c) Subjective and objective evaluation of food
- (d) Importance of food additives in food processing
- (e) Laws related to packaging and labelling of foods.

4. Answer the following: **(any three)**

$10 \times 3 = 30$

- (a) Discuss the functional properties of carbohydrates and proteins.  $5 + 5 = 10$
- (b) State the principles of food preservation. Describe the food preservation techniques used by applying high temperature.  $4 + 6 = 10$
- (c) Write the importance and application of food science in human life.  $10$
- (d) What do you understand by quality assurance? Explain the role of AGMARK and HACCP in maintaining quality of foods.  $2 + 8 = 10$

(e) Explain the hygiene and sanitation practices that has to be followed in a food processing unit. 10

(f) What is sensory evaluation? Discuss the sensory attributes that should be considered while evaluating a food product. 2+8=10

**OPTION-B**

Paper : HSC-HE-5036

**(Child Rights and Gender Justice)**

Full Marks : 60

Time : Three hours

**The figures in the margin indicate full marks for the questions.**

1. State whether the following statements are 'True' or 'False': 1×4=4
  - (a) ICCW was founded in the year of 1952.
  - (b) Rights to education and nationality is not a child right.
  - (c) It is possible for an HIV positive woman to give birth to a baby who does not have HIV.
  - (d) UNCRC is an international agreement to protect the rights of all children.
  
2. Fill in the blanks with appropriate words : 1×3=3
  - (a) National policy for children was formulated in \_\_\_\_\_.

(b) The protection of women from Domestic Violence Act was formulated in the year \_\_\_\_\_.

(c) \_\_\_\_\_ is one of the main causes of child trafficking.

3. Answer briefly :  $2 \times 4 = 8$

(a) What are the *two* different types of child abuse ?

(b) What is child trafficking ?

(c) What is patriarchy ?

(d) Name *two* major agents of gender socialization.

4. Answer briefly *any three* of the following questions :  $5 \times 3 = 15$

(a) How do you promote gender equality in the workplace ?

(b) How does chronic illness affect children ?

(c) What are the causes of child trafficking ?

(d) Write about the types of social institutions.

(e) Write briefly about gender socialization with example.

5. Answer the following questions in detail :  
(*any three*)  $10 \times 3 = 30$

(a) Explain child rights in India.

(b) Discuss the issues of violence against women in India.

(c) Who are considered homeless and street children ? Write about the major factors behind increasing number of street and homeless children.

$5 + 5 = 10$

(d) Discuss some of the gender issues in the workplace.

(e) What are the child protection laws in India ?

(f) What are the policies and programmes for women empowerment ?

**OPTION-C**

Paper : HSC-HE-5056

**(Extension for Development)**

Full Marks : 60

Time : Three hours

**The figures in the margin indicate full marks for the questions.**

1. Fill in the blanks with appropriate words :  
1×4=4
- (a) Adults learn best in \_\_\_\_\_ situation.
  - (b) Sustainable development goals are intended to be achieved by the year \_\_\_\_\_.
  - (c) The term 'extension' was originated in \_\_\_\_\_.
  - (d) There are \_\_\_\_\_ extension approaches commonly practiced all over the world.
2. State whether the following statements are 'True' or 'False':  
½×6=3
- (a) One of the advantages of extension system is that it is a top-down approach.
  - (b) Mass method of extension is expensive due to more coverage.

- (c) The purpose of adult learning can be social only.
- (d) Innovators tend to take risks more readily.
- (e) According to behavioural theory, leaders are born, not made.
- (f) Overadoption is the adoption of an innovation by an individual when experts feel that it should be accepted.

3. Answer the following questions in brief:  
2×4=8
- (a) What do you mean by people's participation?
  - (b) What are different perceived attributes of innovation?
  - (c) Write *two* characteristics of commodity specialized approach of extension.
  - (d) What are different styles of leadership?
4. Answer the following questions : **(any three)**  
5×3=15
- (a) What is adoption? What are different categories of adopters?

- (b) Discuss *any five* developmental issues in India.
- (c) Discuss the commodity specialized approach in extension.
- (d) What is the role of extension in development? Explain in brief.
- (e) Write the importance of behaviour change communication strategies in development programmes.
- (f) Discuss different methods of extension.

5. Answer the following questions in detail:  
**(any three)** 10×3=30

- (a) What do you mean by extension approach? Discuss in detail about different extension approaches. 2+8=10
- (b) Write *five* advantages and *five* disadvantages of extension system. 5+5=10
- (c) Discuss in detail about the history of extension in India and abroad. 5+5=10

- (d) Mention different sustainable development goals (SDGs). Describe *any two* sustainable development goals. 4+6=10
- (e) What are different leadership theories? Explain each of the theories. 10
- (f) What do you mean by adoption? What are different stages of adoption? Explain. 2+8=10