



**UNIVERSITY OF THE PUNJAB**  
**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

Roll No. ....

Subject: Statistics & Computer Application-I

Paper: II / HE 402

Time: 3 Hrs. Marks: 75

**NOTE: Attempt any FIVE questions by selecting not more than TWO questions from each section. Use of scientific calculator and statistical tables are allowed:**

**SECTION I**

- Q # 1(a) Explain the three different meanings of the word statistics.  
 (b) Given the following data , compute median, 6<sup>th</sup> decile and 74<sup>th</sup> percentile.

Hourly wages (Rs.)	40-60	60-80	80-100	100-120	120-140	140-160	160-180
No. of employees	13	23	101	182	105	19	7

(03,12)

- Q.2 (a) Define the term "variable"  
 b) Tabulate the following marks in a grouped frequency distribution taking 10 as class interval size.

74	49	103	95	90	118	52	88	101	96	72	56	64	110	97
59	62	96	82	65	85	105	116	91	83	99	52	76	84	89
77	104	96	84	62	58	66	100	80	54	75	55	99	104	78
66	96	83	57	60	51	114	120	121	92	88	64	63	95	78

(03,12)

- Q # 3(a) What is meant by regression analysis?  
 (b) The following data shows the son's height and father's height.

Father's height (Inches) X	59	61	63	65	67	69	71	73	75
Son's height (Inches) Y	64	66	67	67	68	69	70	72	72

Find the regression line of son's height on father's height .Predict the mean height of sons whose fathers are 70 inches in height.

(03,12)

**SECTION II**

- Q # 4 (a) What is meant by level of significance?  
 (b) From previous records, it is known that the duration of treating a disease by a standard medicine has a mean of 15 days .It is claimed that a new medicine can reduce the treatment time. To test this claim, the new medicine is tried on 70 patients and their mean time of recovery is recorded to be 14.5 days with a variance of 9. Can we reject this claim at 5% level of significance ?

(03,12)

Q.5 (a) What is meant by level of significance?

(b) Past records show that the average score of students in Statistics is 57 with standard deviation 10. A new method of teaching is employed and a random sample of 70 students is selected. The sample average is 60. Can we conclude on the basis of these results, at 5% level of significance, that the average score has increased? (03,12)

Q # 6 (a) Define attribute.

(b) The following table shows the number of recruits taking a preliminary and a final test in car driving. Use the chi-square test to discuss whether there is any association between the results of preliminary and those of the final test.

Categories		Preliminary	
		Pass	Fail
Final	Pass	605	135
	Fail	195	65

(03,12)

### SECTION III

Q.7 (a) Define the term probability.

(b) In a single throw of two fair dice, find the probability that the product of the numbers on the dice is (i) between 8 and 16 (both inclusive) (ii) divisible by 4 (03,12)

Q # 8 a) Define sampling error and Non-sampling error.

b) A population consists of four numbers 3,7,13,15. Considering all possible samples of size 2 which can be drawn with replacement from this population, Find (i) the population mean (ii) the population standard deviation (iii) the mean and standard deviation of sampling distribution of means. Verify  $\mu_x = \mu$  and  $\sigma_x = \sigma/\sqrt{n}$ .

Q # 9 a) The probability that a car stolen in a given city will be recovered is 0.60. Find the probability that 3 out of 10 cars stolen in the city will be recovered.

b) A fair coin is tossed 5 times. Find the probabilities of obtaining various number of heads.

(05,10)

Q # 10 a) Scores on a certain nation-wide college entrance examination follow a normal distribution with a mean of 500 and a standard deviation of 100. Find the probability that a student will score (i) over 650 (ii) less than 250 & (iii) between 325 and 675.

b) A normal distribution has mean = 12 and S.D = 2, find the area under the curve (i) from  $x = 10$  to  $x = 13.5$ , (ii) from  $x = 11.4$  to  $x = 14.2$ . (09,06)



**NOTE: Attempt any FIVE questions. All questions carry equal marks. Attempt at least ONE question from each section.**

**SECTION -I**

Q.NO.01 (a) Solve these simultaneous equations (10)

$$\frac{1}{3}x + y = \frac{10}{3}$$

$$2x + \frac{1}{4}y = \frac{11}{4}$$

(b) Solve (10)

$$\frac{7x-1}{4} - \frac{1}{3}\left(2x - \frac{1-x}{2}\right) = \frac{19}{3}$$

Q.No.02 (a) Solve by factorization (10)

$$3y^2 = y(y-5)$$

(b) Solve by completing square. (10)

$$11x^2 - 34x + 3 = 0$$

Q.No.03 (a) Solve by quadratic formula (10)

$$5x^2 + 8x + 1 = 0$$

(b) Solve (10)

$$\sqrt{4a+x} - \sqrt{a-x} = \sqrt{a}$$

Q.No.04 (a) Solve  $\frac{3}{5} = \frac{1}{2}\left(\frac{x-1}{3} - \frac{x}{5}\right)$  (10)

(b) Solve these simultaneous equation by using coefficient method (10)

$$-4x - y = 34$$

$$-3x - 7y = 38$$

**SECTION-II**

Q.No.05 (a) Evaluate limit by using theorem of limit (10)

(i)  $\lim_{x \rightarrow 3} (3x^2 - 4x + 8)^3$

(ii)  $\lim_{x \rightarrow 2} \sqrt{x^2 + x + 4}$

(b) Evaluate limit by using algebraic techniques (10)

(i)  $\lim_{x \rightarrow 4} \frac{2x^2 - 32}{x^3 - 4x^2}$

(ii)  $\lim_{x \rightarrow 2} \frac{x^3 - 8}{x^2 + x - 6}$

Q.No.06 (a) Solve by using Cramer rule (10)

$$4x+y=9$$

$$-3x-y=-5$$

(b) Multiply the matrix (10)

$$\begin{bmatrix} 1 & 2 \\ 3 & 4 \\ -1 & 1 \end{bmatrix} \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$$

Q.No.07 (a) Prove that (10)

$$(\sec\theta - 1)(\sec\theta + 1) = \tan^2\theta$$

(b) Prove that (10)

$$\sin\theta(\operatorname{cosec}\theta - \sin\theta) = \frac{1}{\sec^2\theta}$$

### SECTION-III

Q.No.08 (a) The expression  $lx^3 + mx^2 - 4$  leaves remainder of -3 and 12. When divided by  $x-1$  and  $x+2$  respectively. Calculate the value of  $l$  and  $m$ . (10)

(b) For what value of  $m$  is the polynomial  $P(x) = 4x^3 - 7x^2 + 6x - 3m$  exactly divisible by  $x+2$ . (10)

Q.No.09 (a) If  $x+1$  and  $x-2$  are factors of  $x^3 + px^2 + qx + 2$ . By use of synthetic division, find value of  $p$  and  $q$ . (10)

(b) Use synthetic division to find quotient and remainder when the polynomial  $x^4 - 10x^2 - 2x + 4$  is divided by  $x+3$  (10)

Q.No.10 (a) Simplify and write answer in form of  $a+ib$  (10)

$$\frac{2+3i}{4-i}$$

(b) Solve and find  $x$  and  $y$  (10)

$$(3 + 4i)^2 - 2(x - yi) = x + yi$$





**UNIVERSITY OF THE PUNJAB**  
**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

Roll No. ....

Subject: Home Economics Education: Administration & Supervision  
Paper: I / HE 405

Time: 3 Hrs. Marks: 100

**NOTE: Attempt any FIVE questions. All questions carry equal marks.**

Q1: (a) Discuss in detail the concept of education in Pakistan. (10, 10)

b) Define Education. What are the aims of education by Sir Syed Ahmed Khan?

Q2: (a) Write a detail note on early Muslim education. (10, 10)

(b) Define policy. Discuss any four educational policies of Pakistan.

Q3: (a) Discuss the contributions of Imam Ghazali and Shah Waliullah for the betterment of Education system. (10, 10)

(b) Define policy. Discuss any four educational policies of Pakistan.

Q4: (a) Define communication. Describe the common types of communication skills. (10, 10)

(b) Describe the styles and behaviour of leadership.

Q5: (a) Define Budget. Explain the types of budgets? (10, 10)

(b) How will you organize and manage the Home Economics Office?

Q6: (a) Define budget. Describe the advantages and disadvantages of budgeting. (10, 10)

(b) What are the terms and conditions for managing the home economics office?

Q7: Write a note on any two of the Following: (10, 10)

1. Importance of communication.
2. Procedure for staff selection.
3. Types of evaluation in supervision.



# UNIVERSITY OF THE PUNJAB

B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021

Subject: Applied Nutrition Paper: III (a) (Group A) / HE 406

Roll No. ....  
Time: 3 Hrs. Marks: 80

**NOTE: Attempt any FIVE questions. All questions carry equal marks.**

- Q1. (a) Discuss the significant causes of over population in Pakistan? (8+8)**  
**(b) What are the possible health implications in an overpopulated country?**
- Q2. (a) Discuss the benefits and dangers of genetically modified food (GMF). (6+10)**  
**(b) Write a note on spontaneous change and guided change.**
- Q3. (a) Define immunity. (4+12)**  
**(b) How are infection and nutrition inter-related to each other?**
- Q4. (a) What are different stages of development of a deficiency disease? (6+10)**  
**(b) Define the following:**  
i) Demography ii) Morbidity  
iii) Mortality iv) Toxicity  
v) Nutrition Education
- Q5. (a) Define nutritional counseling. (2+6+8)**  
**(b) What measures a nutrition counselor can take to increase dietary compliance?**  
**(c) Discuss the different nutrition counseling theories.**
- Q6. (a) How can food safety be ensured at consumer level? (6+5+5)**  
**(b) Write short notes on any 2 of the following;**  
• Antioxidants in foods  
• Nutrition Labels  
• Organic Food
- Q7. (a) Describe the composition and nutritive value of the main legumes consumed worldwide. (8+8)**  
**(b) Discuss the role of any five toxic substances that limit body's ability to utilize nutrients from legumes.**



**UNIVERSITY OF THE PUNJAB**  
**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

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Roll No. ....  
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Subject: Textile Chemistry PAPER: III (a) (Group B) / HE 407

Time: 3 Hrs. Marks: 75

**NOTE: Attempt any FIVE questions. All questions carry equal marks.**

1. a) Explain the chemical structure of wool in detail (7.5)  
b) Discuss the various methods for scouring of raw wool (7.5)
2. Define oxycellulose? At what points in the Anhydro-glucose unit might oxidation take place? (15)
3. Explain the following (15)
  - Hydrocellulose
  - Copper number of cellulose
4. Define degumming. Explain degumming of silk in detail? (15)
5. a) Define polymerization. (3)  
b) Explain different types of polymers and polymerization processes in detail (12)
6. a) Define man-made fibers and describe the four basic processes used in manufacturing of man-made fibers (7.5)  
b) Explain manufacture of acetate in detail with a schematic flowchart (7.5)
7. Write short notes on the following: (15)
  - i. The proteins of silk
  - ii. Orientation of fiber forming polymers



**NOTE: Attempt any FIVE questions. All questions carry equal marks.**

- Q1. a) Define Exceptional Children and Special Education? (4)  
b) Explain the trends and issues of special education? (10)
- Q2. a) Define Intellectual disabilities/Mental Retardation? Discuss the  
Classification of intellectual disabilities according to DSM 5? (5)  
b) Explain the causes of Mental Retardation/Intellectual Disabilities? (9)
- Q3. a) Define ADHD? (4)  
b) Describe different types and causes of ADHD? (10)
- Q4. a) Classify Communication Disorders? (4)  
b) What assessment measures and intervention strategies should be used for young  
children with Communication Disorders? (10)
- Q5. a) Define Hearing Impairment? (4)  
b) Discuss the classification and causes of Hearing Impairment? (10)
- Q6. a) Define Gifted Children? (4)  
b) Describe the major types of gifted Children in detail? (10)
- Q7. Write short notes on any two of the following? (7+7)  
a) Physical Abuse  
b) Stages of Grief in Parents of Children with special needs  
c) DSM V Diagnostic Criteria for Autism



**UNIVERSITY OF THE PUNJAB**  
**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

Roll No. ....

Subject: Marketing Management

Paper: III (a) (Group E) / HE 410

Time: 3 Hrs. Marks: 100

**NOTE: Attempt any FIVE questions. All questions carry equal marks.**

- Q 1. a) What is marketing and what is its primary goal? (10)  
b) Identify the salient features of marketing process? (10)
- Q 2. a) Explain the following:  
1. Company mission (5)  
2. SWOT Analysis (5)  
b) Write a brief note on Customer Satisfaction? (10)
- Q 3. a) Write a brief note on the Economic Environment? (10)  
b) What are the different types of Consumer buying behavior? (10)
- Q 4. a) What are the five stages of buyer decision process? Elaborate with examples? (10)  
b) What is meant by New Product Development? (5)  
c) What are Marketing Strategies? (5)
- Q 5. Define the terms (4 marks each). (4x5=20)  
1. Product  
2. Service  
3. Core Products  
4. Actual Products  
5. Augmented Products
- Q 6. a) Define the salient features of Price Adjustment Strategies? (10)  
b) Define the process of Product Life-Cycle? (10)
- Q 7. a) Write a note on the importance of Pricing? (10)  
b) Briefly describe the Micro Environment of a Market? (10)



# UNIVERSITY OF THE PUNJAB

B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021

Roll No. ....

Subject: Advanced Nutrition & Nutrients

Paper: III (b) (Group A) / HE 416

Time: 3 Hrs. Marks: 80

**NOTE: Attempt any FIVE questions. All questions carry equal marks.**

Q1. a. Describe the secondary and tertiary structure of proteins.	4+4
b. Enlist Essential amino acids. Draw the structures of Amino Acids with acidic and basic properties.	2+3+3
Q2. a. Explain and Classify the Compound lipids with the help of chemical formulas.	10
b. State the process of Hydrolysis of triglyceride with the help of structural formulas	6
Q3. a. Describe the following:	
i. Rancidity	4
ii. Familial Hypercholesterolemia	4
iii. Halogenation and Oxidation	4
iv. Essential Fatty acids	4
Q4. a. Explain isomerism in carbohydrates.	6
b. Define polysaccharides. Discuss in detail the role of polysaccharides in the body.	2+8
Q5. a. Explain the processes of glycogenesis and glycogenolysis.	6,6
b. Discuss their regulation in times of energy deficit and abundance.	4
Q6. a. Discuss the difference between RNA and DNA?	6
b. Explain the process of transcription.	10
Q7. Write notes on any TWO of the following:	8,8
a. Direct and indirect calorimetry	
b. Biosynthesis of fatty acids	
c. Simple and Conjugated proteins	
d. Gluconeogenesis	



**UNIVERSITY OF THE PUNJAB**  
**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

Roll No. ....

Subject: Dying and Printing

Paper: III (b) (Group B) / HE 417

Time: 2 Hrs. Marks: 50

**NOTE: Attempt any THREE questions and Question No. 1 is compulsory.**

- Q.1 (a) Write notes on the following (6 each)**
- i. Method of Bleaching.**
  - ii. Block printing technique.**
  - iii. Basic rendering techniques**
- Q.2 (a) Describe different techniques of textile Printing? (6)**  
**(b) Write detailed note on Batik (10)**
- Q.3 (a) Write down classification of dyes according to their method of application. (8)**  
**(b) Explain the properties of direct dyes in details (8)**
- Q.4 (a) Write down the importance of finishing of Fabrics? (6)**  
**(b). Describe different types of Fabric Finishes? (10)**
- Q.5 (a) Write down the stages of dyeing? (8)**  
**(b) Explain yarn dying in detail (8)**





**UNIVERSITY OF THE PUNJAB**  
**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

Roll No. ....

Subject: Guidance & Counseling of the Young Child  
Paper: III (b) (Group C) / HE 418

Time: 3 Hrs. Marks: 70

**NOTE: Attempt any FIVE questions. All questions carry equal marks. Any extra questions attempted shall not be marked. It is important to give the EXACT question No. on you answer sheet as given on question paper.**

- Q.1.** (a) Explain the difference between Guidance and Counseling with an example of each. 7  
(b) What is the process of counseling for an individual seeking educational guidance? 7
- Q.2.** Discuss the need of Professional counseling and guidance in secondary schools of Pakistan and how it can be helpful to solve the problems of school children. 14
- Q.3.** (a) What is Psychoanalytical theory of personality? 7  
(b) What are defense mechanisms? Briefly explain each one with examples. 7
- Q.4.** Counseling is a goal driven activity. Explain various categories of counseling goals. 14
- Q.5.** What are the important skills that a counselor must possess to apply a given theory and implement the process? 14
- Q.6.** What are different types of standardized tests? How do they help in the guidance and counseling process? 14
- Q.7.** Write short notes on any TWO of the following  
(a) Validity, reliability and practicality of standardized test. 7  
(b) Techniques for Career Planning and Decision Making 7  
(c) Challenges of Individual Counseling 7



# UNIVERSITY OF THE PUNJAB

B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021

Roll No. ....

Subject: Nutrition, Health & Prevention

Paper: III (c) (Group A) / HE 426

Time: 3 Hrs. Marks: 100

**NOTE: Attempt any FIVE questions. All questions carry equal marks.**

Q1.a) Identify medical problems that may be treated with a modified fiber intake and describe the use of **HIGH-FIBER DIETS** in nutrition practice. (10)

b) Describe the **GLYCEMIC INDEX** and explain why its use in disease prevention is controversial. (10)

Q2. a) Mention lifestyle modifications to prevent and manage hypertension. (10)

b) What is **DASH** diet. Also write down the salient features of **DASH** diet? (10)

Q3.a) What are hyperlipidemias. Also explain the possible relationship between **HYPERLIPIDEMIA** and **CHD**? (10)

c) What are the modifiable and non-modifiable risk factors for **CHD**? (10)

Q4.a) Describe the symptoms that develop as a consequence of hyperglycemia.

How is **DIABETES** diagnosed? (10)

b) Characterize **TYPE 1 AND TYPE 2 DIABETES** and describe the complications associated with these conditions. (10)

Q5.a) Define **OSTEOPOROSIS** and discuss its classification. (10)

b) Describe in detail the interventions used for its prevention and treatment. (10)

Q6.a) Discuss reasonable dietary strategies for achieving and maintaining a healthy body weight. (10)

b) What is the role of increased physical activity in a **WEIGHT-LOSS PROGRAM**? (10)

Q7.a) Define **ANTIOXIDANTS AND PHYTOCHEMICALS**. (5)

b) What is the role of nutrition in the etiology and prevention of **Cancer**? (10)

c) What is **CANCER CACHEXIA**? (5)



**NOTE:** *Attempt any FIVE questions including Question # 7 which is compulsory. Support your answer with illustration.*

Q.1. (a) Define testing (3)

(b) What are the objectives of Textile Testing? (12)

Q.2. (a) Define Bending Length of a fabric? (3)

(b) Explain in detail about Shirley Crease Recovery Tester. (12)

Q.3. (a) What do you mean by Regain of textile materials? (3)

(b) Write down the factors that are responsible in regain of textile materials. (12)

Q.4. (a) What is the difference between Random & Bias Sampling? (5)

(b) Describe in detail the methods used for Fabric Sampling in the textile industry. (10)

Q.5. (a) Define Pilling. (3)

(b) Explain in detail I.C.I. Pilling Box Tester. (12)

Q.6. (a) Define the following: (3 each)

(5 × 3 = 15)

(i) Air Permeability    (ii) Air Porosity    (iii) Tensile Strength

(iv) Relative Humidity    (v) Crimp

Q.7. Explain the following: (5 each)

(3 × 5 = 15)

(a) Drop penetration test

(b) Fabric Thickness.    (c) Shirley Stiffness Tester



# UNIVERSITY OF THE PUNJAB

B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021

Roll No. ....

Subject: Sociology Paper: III (c) (Group C) / HE 428

Time: 3 Hrs. Marks: 100

**NOTE: Attempt any FIVE questions. All questions carry equal marks.**

- 1 (A) Define Sociology. Discuss the emergence and significance of Sociology as Social Science
- (B) Discuss the concepts of social structure and social organization. 10,10
2. (A) Explain Social Interaction 10,10
- (B) Discuss different types of Social Conflict with examples
3. (A) Discuss briefly Socialization and personality 5,15
- (B) Discuss Role of socialization in personality formation
4. (A) Define culture 5,15
- (B) Describe the characteristics of culture with examples
5. (A) Define Social Change.
- (B) Write down a comprehensive note on factors which brought socio-culture change in Pakistani society. 5,15
- 6-(A) Define Social Norms and its types 10, 10
- (B) Discuss the mechanism and techniques of Social Control.
- 7-Write Notes on any Two of followings: 10, 10
- Community and its types
  - Social problem of unemployment
  - Culture and Socialization



**UNIVERSITY OF THE PUNJAB**  
**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

.....  
Roll No. ....  
.....  
Time: 3 Hrs. Marks: 70

Subject: Fundamentals of Furniture and Furnishings  
Paper: III (c) (Group E) / HE 430

**NOTE: Attempt any FIVE questions. All questions carry equal marks.**

**Q1. Materials play a significant role in the design and manufacture of Furniture. Discuss with reference to a variety of materials used in Pakistani furniture.** 14

**Q2. Explain the following:**

- a. Traditional method of Pottery making. 7
- b. Kashikari (Tile work) in Punjab. 7

**Q3. Discuss the outstanding Folk motifs in various crafts of the country, Support your answer with illustrations where necessary.** 14

**Q4. Explain the following:**

- a. Describe the art of Rilly work. 7
- b. Difference between Gulbadan and Sussi. 7

**Q5. Pattern and color have come a long way in local Textiles since the inception of Pakistan. Discuss with reference to soft furnishings used in interiors.** 14

**Q6. Briefly explain the variety of Woven & Non-woven rugs used in various regions of Pakistan.** 14

**Q7. Write short notes on any TWO of the following:**

- a. Phulkari embroidery with emphasis on home textiles 7
- b. Multani Pottery 7
- c. Lacquer work on Furniture 7
- d. Metal work 7



# UNIVERSITY OF THE PUNJAB

B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021

Subject: Institutional Management Paper: VI (a) / HE 436

Roll No. ....  
Time: 2 Hrs. Marks: 60

**NOTE: Attempt any THREE questions. All questions carry equal marks.**

**Q1. a) Discuss the role of religious orders and royal households in the development of institutional foodservice organizations. (10)**

**b) Trace the history of restaurants from early times to the present. (10)**

**Q2. a) Compare the advantages and disadvantages of Commissary and Ready-Prepared System. (4+4)**

**b) Compare and contrast the four major types of foodservice systems described. (3+3+3+3)**

**Q3.a) Cite examples of chemical, physical, and biological hazards. (6)**

**b) What conditions contribute to the growth of bacteria in food spoilage? (7)**

**c) What are the most frequent causes of accidents in foodservice operations? How can they be prevented? (7)**

**Q4. a) Discuss in detail Step by step procedures in Menu planning. (8)**

**b) Give a Check list for Menu evaluation. (6)**

**c) Write a note on Menu Design and Format. (6)**

**Q5) Write notes on:**

**a) Organization chart (8)**

**b) Job description (6)**

**c) Job specification (6)**



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Roll No. ....

Subject: Fashion & Boutique Management Paper: VI (b) / HE 437

Time: 2 Hrs. Marks: 60

**NOTE: Attempt any THREE questions. All questions carry equal marks.**

- Q1. a) Briefly describe the importance of window display in fashion boutiques. (10)  
b) What do you understand from the term “product development”. (5)  
c) What is the purpose of marketing research? How it is helpful in finding potential customers? (5)

- Q2. a) What do you understand by the term “Marketing” (5)  
b) What are the essential components of a marketing plan that keeps the sales pipeline full? (10)  
c) Explain the importance of marketing mix. (5)

Q3. Explain the following terms;- (5\*4=20)

- a) Types of fashion  
b) Haute couture  
c) Product life cycle  
d) Trend setters

- Q4. Who are trend setters? (5)  
b) What is the purpose of conducting a Fashion show? (10)  
c) What are some characteristics of a fashion show? (5)

Q5. Who forecasts fashion and precisely explain how fashion forecasting takes place in fashion industry. (20)





**UNIVERSITY OF THE PUNJAB**  
**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

Roll No. ....

Subject: Gerontology

Paper: VI (c) / HE 438

Time: 2 Hrs. Marks: 60

**NOTE: Attempt any THREE questions. All questions carry equal marks.**

- Q. # 1: (a) What are the stages of aging? (10)**  
**(b) Explain the scope of gerontology. (10)**

- Q. # 2: (a) Explain gerontological nursing and clinical gerontology. (14)**  
**(b) Is gerontology an overlapping field? Explain. (6)**

- Q. # 3: (a) What are the precautions that manage biological changes in elderly? (10)**  
**(b) Explain how home care is considered to be the best for older adults? (10)**

- Q. # 4: (a) What are common personality traits in old people? (10)**  
**(b) Explain characteristics of old age.(10)**

- Q. # 5: Write short notes on any two of the following. (10, 10)**  
**(a) Implicit and prospective memory**  
**(b) Alzheimer's disease**  
**(c) Grief**



**UNIVERSITY OF THE PUNJAB**  
**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

Roll No. ....

Subject: Landscape Design Paper: VI (e) / HE 440

Time: 2 Hrs. Marks: 60

**NOTE: Attempt any THREE questions. All questions carry equal marks.  
Make Illustration where necessary.**

Q.1 A successful landscape of a 2 kanal house open area is the result of the sensitive balancing of many elements. Describe with the help of sketches. **20**

Q.2 What type of Soft landscape and hard landscape features can be design for a small neighborhood park?

**20**

Q.3 Write short notes on any two

**10+10 =20**

- a) Chinese landscape
- b) Nova Art landscape
- c) Courtyard gardens

Q.4 What is the difference between formal and informal landscape. Explain with examples / sketches. **20**

Q.5 With the help of a plan (drawing) describes some major Islamic garden features.

**20**



# UNIVERSITY OF THE PUNJAB

**B.S. Home Economics Part-II (4<sup>th</sup> Year) Annual – 2021**

Subject: Art Education

Paper: VI (d) / HE 459

Roll No. ....

Time: 2 Hrs. Marks: 60

**NOTE: Attempt any THREE questions. All questions carry equal marks.**

- 1 a) What impression is imparted by 'FREE EXPRESSION' in Art according to your understanding? (10)  
b) Discuss the salient features of structuring and designing a BULLETIN BOARD? (10)
- 2 a) Define the major traits of CREATIVITY through constructive examples (10)  
b) How is INTEGRATED ART a form of EDUCATION? Discuss (10)
- 3 a) Elucidate the role of an Art Teacher in a Classroom. (10)  
b) What do you know about the art material of art Age and its suitability? (10)
- 4 a) What are the main characteristics of PRE-SCHEMATIC STAGE? Write briefly. (10)  
b) Discuss the important characteristics of PSEUDO NATURALISTIC STAGE (12-14 YRS). (10)
- 5 a) In light of Personality Development shed light on the role of Art. (10)  
b) SCRIBBLING STAGE is called the age of Self Expression. Discuss. (10)