

Higher Secondary Second year Public Examination - March 2023**Answer Key****Home Science****PART - 1****Answer all the questions :-**

S.No	Option	Answer	Mark
1	a	Hematuria	1
2	d	Guava	1
3	b	13%	1
4	-	Given options does not match the question	1
5	d	All of the above	1
6	d	Work hose	1
7	d	Wool	1
8	b	Warranty	1
9	d	Ikebana style	1
10	b	East	1
11	d	DIC	1
12	b	In the absence of parents	1
13	d	Controlling	1
14	d	Air Circulation	1
15	c	22 March	1

PART - II

Answer any six questions. Question No.24 is compulsory :-

16. List any two exogenous agents that cause fever. (2)

The two exogenous agents that cause fever are,

- i) Bacteria
- ii) Fungi

17. What is meant by packaging ? (2)

Packaging is the science, art and technology of enclosing or protecting products for distribution, storage, sale and use

18. What is food adulteration ? (2)

Adulteration is defined as the process by which the quality or the nature of the given substance is reduced through,

- i) addition of a foreign or an inferior substance.
- ii) removal of a vital element.

19. Give some uses of nylon fabrics. (2)

Uses

- i) used in the manufacture of women's stocking or hosiery
- ii) used in the manufacture of socks, swimwear, shorts, track pant, draperies, bed spreads
- iii) used in the manufacture of fishing nets, ropes, parachutes
- iv) used in the manufacture of cook ware
- v) used in the manufacture of machine parts
- vi) used in the manufacture of electronic equipments

(any four)

20. Write about the various types of lines (2)

Types of Lines

- i) Horizontal line - associated with rest and repose
- ii) Vertical line - associated with upright position, alertness and stability
- iii) Diagonal line - associated with restlessness, excitements
- iv) Curved line - associated with grace, comfort and confusion

21. What are the materials used in flower arrangement ? (2)

Materials used

- i) Flowers, foliage, fruits and berries
- ii) Vases / containers
- iii) Stem holders, knife, scissors and wires

22. What are the components of pre- school site ? (2)

- i) Surroundings
- ii) Site
- iii) Building plan

23. Define Entrepreneurship. (2)

Higgins defines, “Entrepreneurship as the function of seeking investment and production opportunity, raising capital, hiring labour, arranging the supply of raw materials, finding site, introducing new techniques and commodities, selecting top managers of day-to-day operations of the enterprises”

A.H.Cole defines, Entrepreneurship as “The purposeful activity of an individual or a group of associated individuals undertaken to initiate, maintain or aggrandize profit by production or distribution of economic goods and services”

(any one definition)

24. Write any two disadvantages of Landfill waste disposal method. (2)

Disadvantages

- i) It causes soil, air and water pollution
- ii) Very hazardous to humans and animals

PART - III

Answer any six questions. Question No.33 is compulsory :-

25. List the signs and symptoms of cirrhosis. (3)

Symptoms

Gastrointestinal disturbances such as anorexia, vomiting, ascites, pain and swelling

26. Differentiate Vegetarian and Non-vegetarian mark. (3)

Vegetarian mark	Non-Vegetarian mark
i) It is indicated by green circle inside a square	i) It is indicated by red circle inside a square
ii) The green circle indicates presence of vegetarian ingredients	ii) The red circle indicates presence of Non-vegetarian ingredients
iii) Example: Honey, milk, spices etc...,	iii) Example: Cake, medicine, packed chicken etc...,

27. Write short notes on Botulism. (3)

Causative Agent: Anaerobic bacillus Clostridium botulinum

- Symptoms:**
- i) Protrusion of the eye balls
 - ii) Dilated pupils
 - iii) Respiratory failure / cardiac failure

Foods involved: contaminated foods such as meat, fish, vegetable and other canned foods.

28. Write any three simple stain removal procedures followed at home. (3)

Simple methods:

i) **Dipping** – The stained material is dipped into the reagent and washed

ii) **Sponging** – The reagent is applied with a sponge on the stained area and washed

iii) **Drop method** - The reagent is applied with a dropper on the stained area and washed

iv) **Steaming** – The stained area is exposed to steam from boiling hot water and Washed

(any three)

29. Give an account of the following colour schemes. (3)

(a) **Monochromatic colour scheme:** One hue colour harmony. It involves use of tints, shades and tones of the same hue

(b) **Analogous colour scheme:** The colours which are lying adjacent to each other in the prang colour chart

(c) **Complementary colour scheme:** Two colours that are directly opposite in the prang colour chart are combined

30. List the emphasis focused in nursery school. (3)

i) Creativity

ii) Imagination

iii) Development of self-caring skills

31. What are the characteristics of cottage Industry ? (3)

- i) Use of traditional skill
- ii) Small scale production
- iii) Unorganized sector
- iv) Employment generation
- v) Preservation of culture
- vi) Use of agricultural resources
- vii) Eco-friendly industries
- viii) Flexible in the operation
- ix) Use of indigenous raw materials

32. What is vermicomposting ? Write its benefits. (3)

Vermicomposting – It is the processing of organized waste through earth worms

Benefits - i) It is clean, socially acceptable, with little to no odour.

- ii) Requires no energy input for aeration
- iii) Reduces the mass of waste by 30%
- iv) Produces a valuable vermicast byproduct
- v) Even generates worms as fishing bait

33. Find the plants that can be grown on Terrace / kitchen garden and mention any two medical uses of it.

- (a) Mint (b) jack fruit (c) Coconut

Mint can be grown on terrace / kitchen garden. (1)

Uses - Contains anti oxidant and anti inflammatory agents. (2)

Used as mouth freshener

PART - IV**Answer all the Questions :-**

34. (a) Write on the risk factors for CVD.

The risk factors for CVD

(5)

Non- modifiable risk factors	Modifiable risk factors
i) Age	i) Blood lipids
ii) Sex	ii) Dietary fats
iii) Hereditary / family history	iii) Obesity
	iv) Hypertension
	v) Diabetes mellitus
	vi) Smoking
	vii) Physical inactivity
	viii) Stress

(any five heading to be explained)

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34. (b) Explain the types of packaging materials used in India.

Types of packaging materials

(5)

- i) Glass containers
- ii) Metal containers
- iii) Composite containers
- iv) Wooden crates or boxes
- v) Plastic
- vi) Modified atmosphere packaging / gas flushing
- vii) Edible food wraps

(any five heading to be explained)

35. (a) Explain the various elements of art.

Various elements of art

(5)

- | | | | |
|------|----------------|---|-------------|
| i) | Line | - | Explanation |
| ii) | shape and form | - | Explanation |
| iii) | Texture | - | Explanation |
| iv) | Space | - | Explanation |
| v) | Colour | - | Explanation |

35. (b) Discuss the different types of Direct printing methods.

Direct printing methods

(5)

- | | | | |
|------|---------------------|---|-------------|
| i) | Roller printing | - | Explanation |
| ii) | Block printing | - | Explanation |
| iii) | Duplex prints | - | Explanation |
| iv) | Photographic prints | - | Explanation |
| v) | Transfer printing | - | Explanation |

36. (a) List the records and registers to be maintained in a pre-school. (5)

Records and registers

Efficient management - pre-school - maintenance of records and registers -
should be simple - actual implementation

Records

Admission, Registration, personal and detail data of children

Progress records

Children's activity, Teacher's observation

Teacher's diary

Monthly and daily programme

Registers

Attendance, Accounts, Stock, Staff, PTM Register

(The above points should be explained)

36. (b) What are the traditional foods ? Describe the traditional cuisine in any of the three districts. (5)

Traditional foods

They are the foods and dishes that are passed through generation or which have been consumed by many generations

Some Traditional food

- i) Chennai vada curry - Explanation
- ii) Madurai Jigarthanda - Explanation
- iii) Srivilliputhur Palkova - Explanation
- iv) Kovilpatti kadalaimittai - Explanation
- v) Sattur karasev - Explanation
- vi) Nanjilnaadu Fish curry - Explanation
- vii) Kancheepuram Idly - Explanation

(any three)

37. (a) What are the steps in HACCP ?

The steps in HACCP

(5)

- i) Analyze hazards - Explanation
- ii) Identify critical control points - Explanation
- iii) Establish preventive measures with critical limits for each control points - Explanation
- iv) Establish procedures to monitor the critical control point - Explanation
- v) Establish corrective actions when monitoring shows that a critical limit has not been met - Explanation
- vi) Establish procedures to verify that the system is working properly - Explanation
- vii) Establish effective record keeping for documentation - Explanation

37. (b) Pavithra is short and obese. What types of lines should she choose in her dress to overcome height ? Explain (5)

- i) One should choose their dress according to their height, weight and complexion
- ii) Selection of right colour, shapes / designs and lines on the dress will enhance ones self confidence
- iii) The vertical lines in a dress helps a person to look taller
- iv) The vertical lines in a dress will also help a obese person to look slimmer
- v) So, Pavithra who is short and obese should choose the dresses with vertical lines to show her tall and slim.

38. (a) Define and list out the types of Floor Decoration. Draw and explain any one of them (5)

Definition - Floor decoration are essential part of the rich heritage of Indian culture and imparts colour, joy and happiness

Types

- i) Kolam
- ii) Rangoli
- iii) Alpana
- iv) Flower carpet

(any one decoration should be explained in detail with diagram)

38. (b) Define organic food. How do organic foods help in enhancing the health of an individual and overall development of the community ? (5)

Definition - Organic food is food product which has been grown on farms using environment-friendly practices and is free of artificial fertilizer, chemical insecticides and pesticides.

Benefits

- i) Natural habitats are less threatened
- ii) Better soil condition
- iii) Bio diversity increases
- iv) Crop diversity
- v) Higher amount of vitamins and minerals
- vi) does not cause hormone imbalance
- vii) prevents Cancer

(The above points should be explained)
