

Roll No.

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(Write Roll Number from left side exactly as in the Admit Card)

Signature of Invigilators

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**2317**

Question Booklet Series

**X**

PAPER–III

Question Booklet No.

(Identical with OMR Answer Sheet Number)

Subject Code : 23

## HOME SCIENCE

Time : 2 Hours 30 Minutes

Maximum Marks: 150

### Instructions for the Candidates

1. Write your Roll Number in the space provided on the top of this page as well as on the OMR Sheet provided.
2. At the commencement of the examination, the question booklet will be given to you. In the first 5 minutes, you are requested to open the booklet and verify it:
  - (i) To have access to the Question Booklet, tear off the paper seal on the edge of this cover page.
  - (ii) Faulty booklet, if detected, should be get replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.
  - (iii) Verify whether the Question Booklet No. is identical with OMR Answer Sheet No.; if not, the full set to be replaced.
  - (iv) After this verification is over, the Question Booklet Series and Question Booklet Number should be entered on the OMR Sheet.
3. This paper consists of seventy-five (75) multiple-choice type questions. All the questions are compulsory. Each question carries *two* marks.
4. Each Question has four alternative responses marked: (A) (B) (C) (D). You have to darken the circle as indicated below on the correct response against each question.

*Example:* (A) (B) (●) (D), where (C) is the correct response.
5. Your responses to the questions are to be indicated correctly in the OMR Sheet. If you mark your response at any place other than in the circle in the OMR Sheet, it will not be evaluated.
6. Rough work is to be done at the end of this booklet.
7. If you write your Name, Roll Number, Phone Number or put any mark on any part of the OMR Sheet, except the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, such as change of response by scratching or using white fluid, you will render yourself liable to disqualification.
8. Do not tamper or fold the OMR Sheet in any way. If you do so, your OMR Sheet will not be evaluated.
9. You have to return the Original OMR Sheet to the invigilator at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are, however, allowed to carry question booklet and duplicate copy of OMR Sheet after completion of examination.
10. **Use only Black Ball point pen.**
11. **Use of any calculator or mobile phone etc. is strictly prohibited.**
12. **There are no negative marks for incorrect answers.**

[Please Turn Over]



## HOME SCIENCE

## PAPER III

1. Mr. Ghanashyam prepared a sweet dish which contains 39 grams of carbohydrate, 2 grams of fat and 5 grams of protein per 100 grams of the dish. Calculate the amount of calories intake by him per 100 grams of the dish neglecting the calories due to rest of the components.

- (A) 190 kcal
- (B) 194 kcal
- (C) 192 kcal
- (D) 196 kcal

2. FSSAI stands for

- (A) Food Safety Standard Authority of India
- (B) Food Standard Safety Authority of India
- (C) Facility Standard Safety Authority of India
- (D) Formulation Standard Safety Agency of India

3. A critical control point can be defined as

- (A) Identification of potential hazards and selection of the preventive measures
- (B) Sampling of product quality and its testing
- (C) A step/point/procedure where potential hazard can be controlled
- (D) Quality testing of the raw materials required for food preparation

4. During the practical examination, lab instructor asked Rabi to estimate fat content of a food sample. While gathering all the chemicals required for the estimation, Rabi got confused regarding the solvent to be used. Which of the followings should Rabi use to achieve the task at hand?

- (A) Benzene
- (B) Propanol
- (C) Petroleum ether
- (D) Acetone

5. Which one of the following tests is done to confirm proper pasteurization of milk?

- (A) Amylase test
- (B) Phosphatase test
- (C) Lipase test
- (D) Transaminase test

6. If a patient gets an advice from a doctor regarding consumption of meat, butter milk and eggs in huge quantity in his/her diet, then which of the following diseases the patient is suffering from?

- (A) Scurvy
- (B) Rickets
- (C) Typhoid
- (D) Kwashiorkor

7. Bitot's spots are indicators of deficiency of which of the following vitamins?

- (A) Vitamin B
- (B) Vitamin A
- (C) Vitamin C
- (D) Vitamin D

8. Which of the followings produces Aflatoxin?

- (A) Salmonella
- (B) Fusarium
- (C) Streptococci
- (D) Aspergillus

9. Which of the followings is an  $\alpha$ -Lactone?

- (A) Vitamin A
- (B) Vitamin B<sub>2</sub>
- (C) Vitamin C
- (D) Vitamin B<sub>1</sub>

10. Which of the following food products is a potential source for iodine?

- (A) Spinach
- (B) Egg
- (C) Banana
- (D) Fish

11. Curdling of milk is caused by

- (A) *S. aureus*
- (B) *S. lactis*
- (C) *S. typhosa*
- (D) *B. cereus*

12. In which of the following grains, highest amount of calcium is present?

- (A) Bengal gram
- (B) Green gram
- (C) Green pea
- (D) Finger millet

13. Within a bread, which of the following proteins is responsible for its spongy structure?

- (A) Albumin
- (B) Zein
- (C) Gluten
- (D) Gliadin

14. If a fat contains mostly saturated fatty acids then it is most likely to be

- (A) Liquid at room temperature
- (B) Solid at room temperature
- (C) Gas at room temperature
- (D) Soft at room temperature

15. Which of the following oils contains highest PUFA?

- (A) Mustard oil
- (B) Corn oil
- (C) Rice bran oil
- (D) Sunflower oil

16. Major function of B vitamins in one of the followings act as

- (A) Emulsifiers
- (B) Coenzymes
- (C) Antioxidants
- (D) Reducing agents

17. Which of the following minerals has an important role in lowering blood pressure?

- (A) Sodium
- (B) Potassium
- (C) Chloride
- (D) Cadmium

18. Which one will have lowest Glycemic Index (GI) among the followings?

- (A) Cereals
- (B) Roots
- (C) Tubers
- (D) Legumes

19. Which of the following proteins has the elastic matrix?

- (A) Protamins
- (B) Glutelins
- (C) Gluten
- (D) Albumin

20. Ropiness in milk is caused by  
(A) *B. subtilis*  
(B) *E. coli*  
(C) *A. viscolactis*  
(D) *P. synxantha*
21. Which of the following class of nutrients contain fibres?  
(A) Minerals  
(B) Fats  
(C) Proteins  
(D) Carbohydrates
22. The ideal concentration of  $\text{Na}^+$  and  $\text{K}^+$  in the cell is  
(A)  $\text{K}^+$  inside and outside both are higher  
(B)  $\text{Na}^+$  inside higher and outside lower  
(C)  $\text{K}^+$  inside higher and  $\text{Na}^+$  outside higher  
(D)  $\text{Na}^+$  and  $\text{K}^+$  are equal in both outside and inside
23. In parenteral feeding of a hepatic precoma and coma patient, intravenous infusion of 2000–2500 ml of 10% glucose is needed at the rate of  
(A) 30 drops per minute  
(B) 20 drops per minute  
(C) 25 drops per minute  
(D) 40 drops per minute
24. Capric acid is  
(A) Short chain saturated fatty acid  
(B) Medium chain saturated fatty acid  
(C) Medium chain unsaturated fatty acid  
(D) Short chain unsaturated fatty acid
25. Amongst the followings, which one is most effective germicide?  
(A) Hydrochloric acid  
(B) Acetic acid  
(C) Butyric acid  
(D) Citric acid
26. Butylated Hydroxy Anisole (BHA) is  
(A) A natural antioxidant  
(B) Emulsifying agent  
(C) A synthetic antioxidant  
(D) Enhances the colour of the food
27. Which of the following attributes is shared by probiotics?  
(A) They are cancer inducing microbes  
(B) They are safe antibiotics  
(C) They are characterized as novel food allergens  
(D) They are live microbial food supplements
28. For the patient (adult male) suffering from Type I Nephritis, the adequate calorie intake  
(A) 1700 kcal  
(B) 1600 kcal  
(C) 1550 kcal  
(D) 1500 kcal
29. Type 3 resistant starch is referred as  
(A) Physically inaccessible  
(B) Chemically modified  
(C) Retrograded  
(D) Genetically modified

30. When milk is heated, a brown colour is developed due to

- (A) Lactose reacts with protein
- (B) Lactose make complexes with bicarbonates
- (C) Sodium bicarbonate is broken down
- (D) Lactose reacts with fat present in milk

31. Which of the following approaches includes attributes like rational behaviour, conventional structure, hierarchy of management and technical requirement?

- (A) Contingency theory
- (B) Relations approach
- (C) Classical approach
- (D) Action theory

32. Bureaucracy does not involve which of the following features?

- (A) Hierarchy of authority
- (B) Specialization
- (C) Generalism
- (D) Impersonality

33. Payments to employees above and over a conventional basic pay is termed as

- (A) Ethnic premium
- (B) Travel grant
- (C) Dearness allowances
- (D) Foreign service premiums

34. The first and foremost step during validation of the performance of an employee in an organisation is to

- (A) Choose specific tests
- (B) Analyze job
- (C) Comprehend test scores
- (D) Administer test

35. If salt is added to water

- (A) The solution will boil at low temperature
- (B) The solution will boil at high temperature
- (C) The solution boiling point remains same
- (D) The solution boiling point will be same as that of water

36. Blanching a vegetable involves which of the followings?

- (A) Sauteing in butter
- (B) Immersion in boiling water for a short time
- (C) Immersion in boiling water for a longer time
- (D) Immersion in cold water

37. The freshness of the egg can be predicted by

- (A) Immersing in a cool and salted water, if it floats it is fresh
- (B) Immersing in a cool and salted water, if it sinks it is fresh
- (C) Immersing in a hot and salted water, if it floats it is fresh
- (D) Immersing in a hot and salted water, if it sinks it is fresh

38. Chicken must be cooked at \_\_\_\_\_ internal temperature for it would be safe for eating.

- (A) 120°F
- (B) 150°F
- (C) 180°F
- (D) 230°F

39. Cleaning chimneys in an apartment comes under

- (A) Idea
- (B) Service
- (C) Entity
- (D) Goods

40. Which of these is a method for measuring the activity level in an infant?

- (A) How much they cry?
- (B) How much they sleep?
- (C) How much they want to be held?
- (D) How much they eat?

41. Under the Child Labour (Prohibition & Regulation) Act, 1986, a child is one who has not completed his

- (A) 10 years
- (B) 12 years
- (C) 18 years
- (D) 14 years

42. As per the Child Labour (Prohibition & Regulation) Act, 1986, a child should not be permitted to work between

- (A) 6 pm and 6 am
- (B) 7 pm and 8 am
- (C) 7 pm and 7 am
- (D) 5 pm and 5 am

43. If a child writes with his/her left hand, he/she should be

- (A) Discouraged
- (B) Made to write with the right hand
- (C) Allowed to keep his/her preference
- (D) Medical help should be sought

44. Children with learning disabilities can be expected to be characterized by

- (A) Above average intelligence
- (B) High capability to perform higher order thinking task
- (C) High level memory
- (D) Discrepancies between academic performance and ability

45. When a child with a disability first comes to school, the teacher should

- (A) Seclude him/her from other students
- (B) Discuss with the child's parents to evolve combined plans
- (C) Refer the child to a special school
- (D) Give some work to check efficiency

46. The body and brain's grow process is called

- (A) Development
- (B) Maturation
- (C) Behaviour
- (D) Conception

47. In childhood the gain in weight comes principally from

- (i) Bone
- (ii) Blood
- (iii) Hormones
- (iv) Mussel tissue

Identify the correct sequence as per the given codes:

- (A) (i), (ii), (iii), (iv)
- (B) (i), (ii), (iii)
- (C) (i), (ii)
- (D) (i), (iv)

48. Maturation refers to \_\_\_\_\_ changes from conception to death.

- (i) Neurophysiological changes
  - (ii) Bio-chemical changes
  - (iii) Metabolic changes
- (A) Only (i)
  - (B) Only (ii)
  - (C) Both (i) and (ii)
  - (D) (i), (ii), (iii)

49. Which one is stronger than steel wire?
- (A) Cotton fibre
  - (B) Silk thread
  - (C) Plastic thread
  - (D) Nylon fibre
50. Polyester is repeating unit of
- (A) Ether
  - (B) Ester
  - (C) Beads
  - (D) Carbon
51. Which one of the following is popular polyester?
- (A) Terylene
  - (B) Polyethane
  - (C) Plastic
  - (D) Rayon
52. A dye must contain
- (A) At least one chromophore group and one auxochrome group
  - (B) No chromophore group
  - (C) No auxochrome group
  - (D) One chromophore but no auxochrome group
53. The yellow colour in egg yolk is due to
- (A) Fat present in egg
  - (B) Carotenoid
  - (C) Anthocyanin
  - (D) Diazonium salt
54. Litmus is a
- (A) Natural dye
  - (B) Artificial dye
  - (C) Synthetic dye
  - (D) Coal tar dye
55. Evening and nightwear garments should be
- (A) Dark in colour
  - (B) Shiny fabric
  - (C) Decorative fabric
  - (D) Decorative, shiny and dark colour fabric
56. While, choosing household textiles like towel linen etc., one looks for
- (i) Quality
  - (ii) Washability
  - (iii) Absorbency
  - (iv) Durability and softness
- Select the correct sequences as per the given codes:
- (A) (i), (ii), (iii), (iv)
  - (B) (i), (ii), (iii)
  - (C) (i), (ii)
  - (D) (i), (iv)
57. According to Dr. C. V. Raman, the eminent Indian physicist, human eye can distinguish how many colours?
- (A) 100
  - (B) 150
  - (C) 200
  - (D) 250
58. The contribution of Jahangir and Shajahan to Indian Textiles was in the field of
- (A) Clothing
  - (B) Fibres
  - (C) French Belgium designs
  - (D) Dying

59. The term Pre-basic Education is given by  
(A) Rabindranath Tagore  
(B) Tarabai Modak  
(C) Mahatma Gandhi  
(D) Maria Montessori
60. Market is a place where, there is  
(A) Exchange of services  
(B) Shaping of goods and services  
(C) Exchange of goods and services  
(D) Finishing of goods
61. All the followings are correct except  
(A) District forum members should hold office for a term of 5 years or upto the age of 65 years.  
(B) The members of district forum shall be eligible for re-appointment for another term.  
(C) The members of district forum may resign the office, in writing, addressed to the State Government.  
(D) The minimum member of meetings held for district forum is 4.
62. Ergonomics is a body of knowledge which is not connected with  
(A) Human abilities  
(B) Design of tools, machines, system, tasks, jobs and environments  
(C) Fitting the job or task to the person  
(D) Providing people better jobs
63. The consumer protection act which was levied in 1986 does not extend to  
(A) North-East area  
(B) Nagaland tribal area  
(C) Nagaland tribal area and Jammu & Kashmir  
(D) Jammu & Kashmir
64. Example for gender-neutral language was set by  
(A) Sales woman  
(B) Dear Sir  
(C) David  
(D) Chairperson
65. A form of nonverbal communication called \_\_\_\_\_ can be used to establish rapport between speaker and listener.  
(A) Mirroring  
(B) Scapegoating  
(C) Paradigming  
(D) Modelling
66. Meta-communication is referred to the speaker's  
(A) Intentional choice of dress  
(B) Unintentional choice of words  
(C) Intentional choice of words  
(D) Unintentional choice of dress and words
67. The primary characteristics of home science extension are  
(A) It has multidisciplinary approach combining knowledge from different fields  
(B) It is not family oriented  
(C) It is compulsory for people to participate in home science extension programmes  
(D) It does not empower women
68. Non-formal education is  
(A) It is an organized educational activity carried outside the framework of the formal system  
(B) It includes school dropouts  
(C) Formal methods of teaching is used for this propose  
(D) Both (A) and (B)

69. The economic status of women may be improved for empowering them by

- (A) Developing their vocational skills
- (B) Developing their educational skills
- (C) Not helping them with their education
- (D) Both (A) and (B)

70. The central level agencies offering support for carrying out the programmes of Non-Formal Education are as follows:

- (A) NCERT – National Council for Education Research and Technology
- (B) SCERTs – State Council for Educational Research and Training
- (C) DIETs – District Institutions of Educational Technology
- (D) Centres for Continuing Education

71. The public space where telephones, computers and internet can be accessed is

- (A) Community Learning Centre
- (B) Telecentre
- (C) Policy framework
- (D) Community Multimedia Centre

72. The major purposes of evaluation in adult education is

- (A) To determine the effectiveness of the teaching materials and methods and determination of learner satisfaction
- (B) To give grades in different subjects to the learners
- (C) To give marks in different subjects to the learners
- (D) To give degree to the learners

73. The factors motivating adult learners are

- (A) Their perceived need
- (B) Their economic need
- (C) No need
- (D) Both (A) and (B)

74. Home Science is important for

- (A) Managing the home
- (B) Taking good care of the children only
- (C) Believing in values of life
- (D) Becoming healthy

75. It has been generally observed that people remember

- (A) 10% of what is seen
  - (B) 20% of what is seen
  - (C) 30% of what is seen
  - (D) Nothing that is seen
-

**X-11**

**2317-III**

**ROUGH WORK**

*2317-III*

X-12

**ROUGH WORK**