

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, VADODARA

Ph. D. ENTRANCE TEST (PET) 2023

Signature of Invigilator

Paper - II
Home Science

Roll.
No.

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Maximum Marks: 50

No. Of Printed Pages: 8

Instruction for the Candidate:

1. This paper consists of **FIFTY (50)** multiple choice type questions. Each Question carries **ONE (1)** mark.
2. There is no Negative Marking for Wrong Answer.
3. A separate OMR Answer Sheet has been provided to answer questions. Your answers will be evaluated based on your response in the OMR Sheet only. No credit will be given for any answering made in question booklet.
4. Defective question booklet or OMR if noticed may immediately replace by the concerned invigilator.
5. Write roll number, subject code, booklet type, category and other information correctly in the OMR Sheet else your OMR Sheet will not be evaluated by machine.
6. Select most appropriate answer to the question and darken appropriate oval on the OMR answer sheet, with black / blue ball pen only. **DO NOT USE PENCIL** for darkening. In case of over writing on any answer, the same will be treated as invalid. Each question has exactly one correct answer and has four alternative responses (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each item.
Example: (A) (B) (C) (D) where (B) is correct response.
7. Rough Work is to be done in the end of this booklet.
8. If you write your Name, Roll Number, Phone Number or put any mark on any part of the OMR Answer Sheet, except for 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.
9. Calculators, Log tables any other calculating devices, mobiles, slide rule, text manuals etc are **NOT** allowed in the examination hall. If any of above is seized from the candidates during examination time; he/she will be immediately debarred from the examination and corresponding disciplinary action will be initiated by the Center Supervisor as deemed fit.
10. **DO NOT FOLD or TEAR** OMR Answer sheet as machine will not be able to recognize torn or folded OMR Answer sheet.
11. **You have to return the OMR Answer 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 original question booklet on conclusion of examination.

Paper - II
Home Science

Note: This paper contains **FIFTY (50)** multiple-choice questions. Each Question carries **ONE (1)** mark.

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| 01) How many IFA tablets needs to be given to a pregnant woman whose hemoglobin is 12.5g/dl?
A) 60
B) 120
C) 100
D) 200 | 08) Oxymyoglobin imparts ____ color to meat.
A) Light to dark red
B) Greyish pink
C) Bright red color
D) Cherry red |
| 02) What is the name of the vaccine given to WRA to protect against Cervical Cancer?
A) HPV
B) IPV
C) BCG
D) Hep B | 09) _____ media provides the nutrients that enhances the growth and predominance of a particular type of bacterium and do not enhance other types of organisms that may be present.
A) Selective media
B) Differential media
C) Assay media
D) Maintenance media |
| 03) What is a major limitation of using BMI (body mass index) as a method of body fat measurements?
A) It is not an accurate measure for average people
B) It is more accurate than height-weight tables
C) It does not distinguish between fat and fat free mass
D) All of the above | 10) The potentiality of a substance to draw up the muscles of the mouth is known as:
A) Mouthfeel
B) Astringency
C) Texture
D) Graininess |
| 04) Food Security is measured by
A) Availability of food at all times
B) Accessibility of food
C) Affordability of food
D) All the above | 11) The group in azo dye is represented as
A) (-N=N-)
B) (-N-N-)
C) (-N=C=N-)
D) (-CN=CN-) |
| 05) If patient A does not have few or classical symptoms of diabetes and his urine and blood reports are also not giving conclusive results, then what biochemical test you will suggest?
A) OGTT
B) HbA1C
C) FBS
D) RBS | 12) Felt can be cut in any direction without fraying or unraveling because of the
A) Compact fibre arrangement
B) Distorted and open structure
C) Narrow width
D) Fibre composition |
| 06) Dietary deficiency of thiamine inhibits the activity of the enzyme:
A) Pyruvate kinase
B) Pyruvate dehydrogenase
C) Phosphofructokinase
D) Enolase | 13) The factor providing scientific basis for grouping man-made fibers that belong to a common or similar chemical nature.
A) Common name
B) Trade name
C) Generic name
D) Brand name |
| 07) Choose the option that represents an experimental design wherein an observation or measurement is not taken at the start of the study.
A) Non-equivalent group, pre-test – post-test design
B) One group pre-test – post-test design
C) Pre-test – Post-test control group design
D) Non-equivalent group, post-test only design | 14) The percent coefficient of variation for the sample with mean strength 200g and standard deviation 20g
A) 1
B) 10
C) 100
D) 1000 |

- 15) _____ dyes are ideal as a more eco - friendly alternative in synthetic dyes.
 A) Mordant
 B) Metal complex
 C) Reactive
 D) Sulphur
- 16) _____ research describes what will be when certain variables are carefully controlled or manipulated.
 A) Historical
 B) Descriptive
 C) Qualitative
 D) Experimental
- 17) _____ research presents non-quantitative type of analysis.
 A) Quantitative
 B) Qualitative
 C) Comparative
 D) Experimental
- 18) Drape, surface smoothness and stability of a fabric are controlled primarily by the _____.
 A) Weave style
 B) Dyeing
 C) Spinning
 D) Extraction process
- 19) Thickeners used in textile printing are _____ molecular weight compounds giving _____ paste in water.
 A) Low, non-viscous
 B) High, non-viscous
 C) Low, viscous
 D) High, viscous
- 20) The machine usually equipped with knives that trim or create the edge immediately in front of the stitch formation.
 A) Lock stitch sewing machine
 B) Over lock sewing machine
 C) Cover stitch sewing machine
 D) Zig zag stitch sewing machine
- 21) What is Agmark used for?
 A) Right to safety
 B) Certification of edible oil and cereals
 C) Right to information
 D) An agency that develops standards for goods and services
- 22) This type of wood is darker and heavier than other types of wood.
 A) Soft wood
 B) Hard wood
 C) Solid wood
 D) Laminated wood
- 23) The work triangle includes _____.
 A) Sink Center, Range Center and Refrigerator Center
 B) Sink Center, Mix Center and Refrigerator Center
 C) Mix Center, Preparation Center and Refrigerator Center
 D) Sink Center, Range Center and China Center
- 24) Which of the following is not an objective of design?
 A) Beauty
 B) Functionalism
 C) Expressiveness
 D) Impractical
- 25) Tool for time management is
 A) Work Simplification
 B) Energy Management
 C) Money management
 D) Home management
- 26) Decision making is
 A) Unique to management
 B) Heart of management
 C) Smallest unit in management
 D) Output to management
- 27) The basic consumer rights were first recognized by
 A) Abraham Lincon
 B) John F Kennedy
 C) Philip Kotlar
 D) Gross and Crandall
- 28) One of the Levels of forum for Redressal of Complaints is
 A) State Commission
 B) City Court
 C) International Court
 D) World Court
- 29) The family think about having a house for satisfying the following function
 A) Location
 B) Protection
 C) Financial
 D) Design
- 30) Techniques of work simplification is
 A) Pathway chart
 B) Work plan
 C) Equipment Plan
 D) Product plan

- 31) _____ is the transitional period between adolescence and adulthood, characterised by exploration and experimentation.
 A) Middle Adolescence
 B) Late Adulthood
 C) Emerging Adulthood
 D) Late Childhood
- 32) In the Ashram Dharma framework, _____ is the stage corresponding to the stage of the family or householder.
 A) Grihastha ashram
 B) Brahmacharya ashram
 C) Vanaprastha ashram
 D) Sanyasa ashram
- 33) Which of the following statements is FALSE:
 A) There was a time in the history of human beings when children were considered miniature adults and adolescence did not exist as a life stage.
 B) Nurturing character strengths among adolescents can lead to positive psycho-social outcomes for adolescents as well as the society.
 C) It is normal for young adolescents to be self-absorbed, argumentative and overly dramatic.
 D) According to Erikson, adolescents face the psycho-social conflict of intimacy vs isolation.
- 34) _____ is a form of research aimed at transformative change in social policies and legislation.
 A) Basic Research
 B) Action Research
 C) Applied research
 D) Social research
- 35) Statistical tests used to test non-directional hypothesis are:
 A) One-tailed test
 B) Two-tailed test
 C) Three-tailed test
 D) Four-tailed test
- 36) Which of the following statements is an assumption of the Feminist Family Theory:
 A) Women should have greater power in society than men
 B) Men are more intellectual and virtuous by nature.
 C) Women and men are equally oppressed in family and society
 D) Women's oppression is real and systematic in family & society
- 37) What years of the human lifespan are included in Early Childhood Education?
 A) 0-3 years
 B) 0-8 years
 C) 1-6 years
 D) 0-10 years
- 38) Introduction of POSH (Prevention of Sexual Harassment) Act 2013 is mandatory for all workplaces with more than ____ employees
 A) 10
 B) 50
 C) 100
 D) 30
- 39) Value of an item that occurs more frequently than others is
 A) Mean
 B) Median
 C) Mode
 D) Average
- 40) Pedagogy is the study of _____
 A) Education
 B) Teaching methods
 C) Disciplining methods
 D) Guiding methods
- 41) The indicators used to measure socio-economic impact of development includes
 A) Change in community demographics
 B) Demand for public services
 C) Changes in employment and income level
 D) All the above
- 42) Choose the odd one from the following:
 A) Tamasha
 B) Bhavai
 C) Timli
 D) Khayal
- 43) Role play is
 A) A Social drama
 B) based on developmental issues
 C) An act which requires practice
 D) All the above
- 44) Neil McKee's Model of Development Communication includes three main concepts from the following, except for the _____
 A) Programme Communication
 B) Social Mobilisation
 C) Corporate communication
 D) Advocacy

- 45) In Nair-White _____ model of Message Development, the basic elements are source, message, channel and receiver which combined with organisational and socio-cultural change concepts.
- A) transactional
 - B) interactive
 - C) participative
 - D) active
- 46) Dominant Paradigm (Choose the odd one)-
- A) Growth Centred model leading to economic growth
 - B) Increase in disparity and marginalisation of weaker
 - C) Social and environmental development
 - D) Increase in GDP
- 47) Rogers (1960) stressed _____ paradigm and modernization at the social system level.
- A) Basic need
 - B) Human Development
 - C) Diffusion of Innovation
 - D) New development
- 48) Planned strategy for development communication approach is based on the idea that the success of DC depends on _____
- A) Individual channel
 - B) Local people
 - C) Team approach
 - D) NGOs
- 49) Which of the following is not a successful communicator?
- A) One who presents material in a precise and clear way.
 - B) One who is able to adapt himself according to the language of the communicatee
 - C) One who knows a lot but is somewhat reserve in his attitude.
 - D) One who sometimes becomes informal before the receiver and develops rapport
- 50) To convert a message into groups of words, symbols, gestures, or sounds that present ideas or concepts is called:
- A) encoding
 - B) feedback
 - C) noise
 - D) media richness

Rough Work: