

Booklet Type

A

Booklet No.

801157

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, VADODARA

Ph. D. ENTRANCE TEST (PET) – 7<sup>th</sup> August 2022

Signature of Invigilator

Roll.  
No.

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Paper - I

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.

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## Paper – I

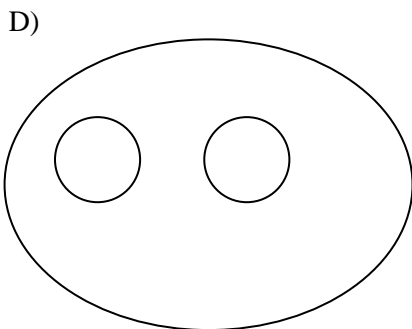
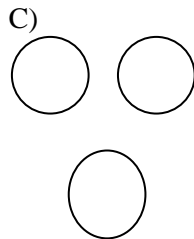
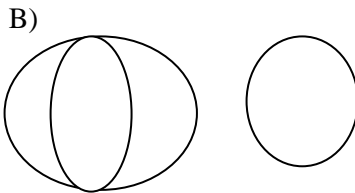
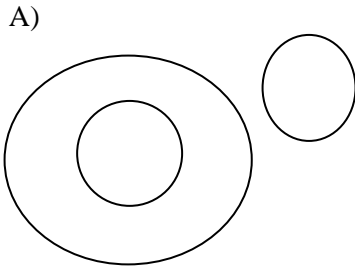
**Note:** This paper consists of **FIFTY (50)** multiple choice type questions. Each Question carries **ONE (1)** mark.

- 01) Teachers are leaders because of their  
A) Knowledge  
B) Vision  
C) Mind  
D) Spirit
- 02) The differences in aptitude in learners can be attributed to  
A) Individual differences  
B) Achievement differences  
C) Societal differences  
D) Cultural differences
- 03) Teachers who are high in Emotional Intelligence are usually high in  
A) Sympathy  
B) Fear  
C) Empathy  
D) I.Q
- 04) The basis for creativity is  
A) Divergent thinking  
B) Convergent thinking  
C) Persistent thinking  
D) Selective thinking
- 05) Curriculum is  
A) All activities that provide learning experiences to the learner  
B) Syllabus  
C) Text book  
D) Instructional material
- 06) Effective communication is when the communication message is  
A) Received by the receiver  
B) Understood by the receiver  
C) Interpreted by the receiver  
D) Decoded by the receiver
- 07) In Intra-personal communication the sender and the receiver are  
A) Different  
B) Same  
C) Similar  
D) Identical
- 08) Communication provides release for emotional expression which is known as.  
A) catheter  
B) cathexis  
C) Catharsis  
D) Cathedral
- 09) Communication can be viewed as an aspect of language that focuses on  
A) Listening, reading, writing and creative skills  
B) Speaking, reading, writing and creative skills  
C) Speaking, Reading, Writing and Summarizing skills  
D) Listening, Speaking, Reading and Writing skills
- 10) The feedback in the communication process can be  
A) Oral  
B) Verbal  
C) Non-verbal  
D) Verbal and Non-Verbal
- Read the passage carefully and answer the following 5 (Five) questions:**  
A common meaning of podcast is 'online audio' that can be either be downloaded, streamed or subscribed to via an RSS feed. However, technically a podcast can be understood as an 'ongoing radio' a radio programme that releases regular 'episodes' that listeners subscribe to via a feed. Podcasts can be on any topic ranging from Politics to Art that can be found in podcast directories. In order to promote collaborative and socially constructivist learning environments, educational podcasting can be effective. There is a lot of team work involved and social skills are developed in learners. Students learn how to express themselves with clarity and communication skills are enhanced. Students learn how to record, edit and distribute digital audio developing their technical skills. Podcasting helps learners to acquire and share their knowledge and provides opportunities for peer-learning.
- 11) Listener's subscription via a feedback is an important characteristic of a  
A) Blog  
B) Twitter  
C) Facebook  
D) Podcast
- 12) Recording and editing can enhance  
A) Financial skills  
B) Technical skills  
C) Study skills  
D) Managerial skills
- 13) Educational podcasting helps learners to learn from their  
A) Teachers  
B) Parents  
C) Peers  
D) Community
- 14) A collaborative learning environment means  
A) Students attempt to learn from each other  
B) Students learn on their own  
C) Students learn from their teachers  
D) Students learn from their parents

- 15) Learners can make podcasts on  
 A) Any topic of their choice  
 B) Educational Topics  
 C) Technical topics  
 D) Specific topics
- 16) Mean, Median and Mode are the:  
 A) Measures of deviation  
 B) Ways of sampling  
 C) Measures of Central tendency  
 D) None of the above
- 17) Research is  
 A) Searching again and again  
 B) Finding solution to any problem  
 C) Working in a scientific way to search for truth of any problem  
 D) None of the above
- 18) Which of the following is the first step in starting the research process?  
 A) Searching sources of information to locate problem.  
 B) Survey of related literature  
 C) Identification of problem  
 D) Searching for solutions to the problem
- 19) Action research means  
 A) A longitudinal research  
 B) A basic research  
 C) A research with socioeconomic objective  
 D) A research initiated to solve an immediate problem
- 20) A reasoning where we start with certain particular statements and conclude with a universal statement is called  
 A) Deductive Reasoning  
 B) Inductive Reasoning  
 C) Abnormal Reasoning  
 D) Transcendental Reasoning
- 21) Firewalls are used to protect a communication network system against:  
 A) Unauthorized attacks  
 B) Virus attacks  
 C) Data-driven attacks  
 D) Fire-attacks
- 22) The process of laying out a document with text, graphics, headlines and photographs is involved in  
 A) Deck Top Publishing  
 B) Desk Top Printing  
 C) Desk Top Publishing  
 D) Deck Top Printing
- 23) Which part of the Central Processing Unit (CPU) performs calculation and makes decisions:  
 A) Arithmetic Logic Unit  
 B) Alternating Logic Unit  
 C) Alternate Local Unit  
 D) American Logic Unit
- 24) www represents:  
 A) who what and where  
 B) weird wide web  
 C) word wide web  
 D) world Wide Web
- 25) The full form of "MOOC"  
 A) Massive Open Opportunity Course  
 B) Massive Open Online Course  
 C) Massive Open Offline Courses  
 D) None of the above
- 26) Which term comes next in the series:  
 YEB,WFD,UHG,SKL,?  
 A) QOL  
 B) QGL  
 C) TOL  
 D) QNL
- 27) Find the term which does NOT fit into the series:  
 1CV,5FU,9IT,15LS,17OR  
 A) 5FU  
 B) 15LS  
 C) 9IT  
 D) 17 OR
- 28) Anthropology is related to man in the same way as Anthology is related to  
 A) Machines  
 B) Trees  
 C) Apes  
 D) Poems
- 29) Car : Garage :: Aeroplane : ?  
 A) Port  
 B) Depot  
 C) Hanger  
 D) Harbour
- 30) BEGK is related to ADFJ in the same way as PSVY is related to  
 A) LOQT  
 B) ROUX  
 C) OTUZ  
 D) ORUX
- 31) In a joint family, there are father, mother, 3 married sons and one unmarried daughter .Of the sons, two have 2 daughters each, and one has a son. How many female members are there in the family?  
 A) 2  
 B) 3  
 C) 6  
 D) 9

- 32) A man is facing south. He turns  $135^\circ$  in anticlockwise direction and then  $180^\circ$  in the clockwise direction. Which direction is he facing now?
- North-east
  - North-west
  - South – east
  - South-west

Choose the VENN diagram which best illustrates the three given classes in following 2 (Two) questions:



- 33) Machine, Lathe , Mathematics.
- 34) Yak, Zebra, Deer.
- 35) Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.
- Brook
  - Bandit
  - Boisterous
  - Baffle
  - Bright

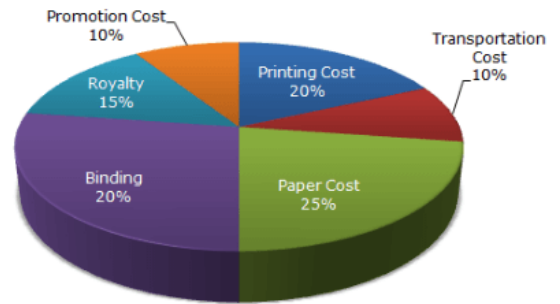
- 2,4,3,1,5
- 2,4,3,5,1
- 4,2,3,1,5
- 4,2,3,5,1

- 36) A bus for Mumbai leaves every 30 minutes from a bus stand. An enquiry clerk told a passenger that the bus has already left 10 minutes ago and the next bus will leave at 9.35 a.m. At what time did the enquiry clerk give this information to the passenger?
- 9.10 a.m.
  - 8.55.a.m.
  - 9.08 a.m.
  - 9.15 a.m.

**NOTE : Answer following 4(Four) questions using the following diagram**

The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it.

Various Expenditures (in percentage) Incurred in Publishing a Book



- 37) If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be amount of royalty to be paid for these books?
- Rs. 19,450
  - Rs. 21,200
  - Rs. 22,950
  - Rs. 26,150
- 38) The price of the book is marked 20% above the C.P. If the marked price of the book is Rs. 180, then what is the cost of the paper used in a single copy of the book?
- Rs. 36
  - Rs. 37.50
  - Rs. 42
  - Rs. 44.25
- 39) If 5500 copies are published and the transportation cost on them amounts to Rs. 82500, then what should be the selling price of the book so that the publisher can earn a profit of 25% ?
- Rs. 187.50
  - Rs. 191.50
  - Rs. 175
  - Rs. 180

- 40) Royalty on the book is less than the printing cost by:  
 A) 5%  
 B) 33 1/5%  
 C) 20%  
 D) 25%
- 41) The cyclonic storm that emerged from the Arabian Sea, and hit southern Gujarat in May 2021 and was classified as a Very Severe Cyclonic Storm (VSCS) was named .....  
 A) Vaayu  
 B) Tauktae  
 C) Nisarga  
 D) Fani
- 42) Which of these days is celebrated in the form of *World Environment Day* all around the world?  
 A) 05 JULY  
 B) 15 JULY  
 C) 05 JUNE  
 D) 15 JUNE
- 43) Which among the below is **not** a part of the 8 missions of the National Action Plan for Climate Change in India?  
 A) National Mission for Sustaining the Himalayan Eco-system  
 B) National Mission for a Green India  
 C) National Mission for Sustainable Konkan bio-diversity  
 D) National Mission on Strategic Knowledge for Climate Change
- 44) Which two forms of alcohol do we include in biofuels?  
 A) Methanol and Ethanol  
 B) Propanol and Ethanol  
 C) Propanol and Methanol  
 D) None of the above
- 45) Sustainable Development Goals (SDGs) are formally under the.....  
 A) Transforming Our World: 2030 Agenda  
 B) Sustainable Life: 2025 Agenda  
 C) Life For All: 2035 Agenda  
 D) One Planet, One Humanity: 2020 Agenda
- 46) NAAC stands for  
 A) National Accounts and Audit Council  
 B) National Assessment and Accreditation Council  
 C) National Accreditation and Appraisal Council  
 D) National Assessment and Accreditation Committee
- 47) Which institution is ranked at the over all top academic institution in India by NIRF, 2022.  
 A) Indian Institute of Technology Delhi  
 B) Indian Institute of Science (IISc) Bangalore  
 C) Indian Institute of Technology Kharagpur  
 D) Indian Institute of Technology Madras
- 48) Who is the present Chairman of UGC, Govt.of India?  
 A) Prof. M. Jagadesh Kumar  
 B) Prof. M. Nageswara Rao  
 C) Prof. Yogesh Singh  
 D) Prof. S.C. Sharma
- 49) In which year, the first National Education Policy was introduced in India?  
 A) 1986  
 B) 2000  
 C) 1968  
 D) 1964
- 50) ..... is a National digital platform for school education, initiated by NCERT, New Delhi.  
 A) DIKSHA  
 B) SHIKSHA  
 C) GYAN  
 D) VIGYAN
- \*\*\*\*\*



**Rough Work:**