



Bhakta Kavi Narsinh Mehta University- Junagadh

Syllabus for Scientist-C and Scientist-D for Centre of Excellence for Wildlife and Conservation Studies

Contents

1. **INDIAN WILDLIFE & FORESTRY:** Vegetation Science & Forestry, Biomes, Major Forest types in India, Mammalogy, Herpetology, Ornithology, and Invertebrate biology, threatened wildlife of India, major conservation issues and projects in India, Conservation education and outreach, Role of Global conservation organizations like IUCN and CITES
2. **FUNDAMENTALS OF ECOLOGY:** Principles of Biogeography, Habitat Ecology, Population Ecology, Community Ecology, Macroecology, Evolutionary Ecology, Wetland Ecology & Management, Coastal & Marine Ecology
3. **GIS and REMOTE SENSING:** Nature of geospatial data, Fundamentals of GIS, cartography, & mapping, GPS technology, Coordinate systems and map projections, topology, & DEMS principles & methods of remote sensing, Aerial sensor imagery, Satellite sensor imagery, High resolution imagery, Image processing & interpretations, Georectification & radiometric correction
4. **WILDLIFE MANAGEMENT & POLICY:** Principles of Wildlife Management, Human-Wildlife Conflicts & Management, Ecological Impact Assessment, Conservation Breeding and Re-introduction, Protected areas, National Parks and Sanctuary management, Habitat connectivity, Ecological corridors and corridor management, Indian Wildlife (Protection) Act 1972, Indian Forests Act
5. **BIOSTATISTICS & RESEARCH METHODOLOGY:** Basic biostatistics, Principles of Scientific Inquiry & Types of scientific research, Fundamental and applied Research Methods, Reference management, Modern tools in statistics, Role of scientific research in wildlife conservation

Guidelines for written test:

1. There shall be 50 multiple choice questions, 10 from each unit carrying 2 marks for correct answer.
 2. There shall be no negative markings.
 3. The passing criteria shall be 50% marks and no relaxation in passing level for any reservation category.
 4. The candidates who will secure 50% marks or more than 50% marks will be called for the personal interview.
 5. Examinations for the post of Scientist-C and Scientist-D will be conducted shortly. All candidates are advised to visit the University website regularly for updates.
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BHAKTA KAVI NARSINH MEHTA UNIVERSITY, JUNAGADH

**Syllabus for Technical Assistant and Office Assistant Exam for
Centre of Excellence for Wildlife and Conservation Studies
Selection through Exam only**



SCHEME OF EXAMINATION FOR DIRECT RECRUITMENT FOR TECHNICAL ASSISTANT

The following shall be the scheme of examination, components of written test and its syllabus for the post of TECHNICAL ASSISTANT.

Paper-1: Scheme of the Examination for Technical Assistant Post

Paper -1	TEST COMPONENTS	Duration:50 Minutes	
		Number of Questions	Marks
1	General Science	10	10
2	Basic wildlife sciences	10	10
3	Reasoning Ability	05	05
4	Remote sensing and GIS	05	05
5	English Language Grammar	10	10
6	Techniques in wildlife research	10	10
	Total	50	50

Detailed Syllabus for Paper I:

1) General science:

Questions will be designed to test the knowledge of science, laboratory equipment and lab practice. The questions may be from all the spheres of science, however, emphasis would be on the field of science pertaining to the wildlife sciences and its conservation studies.

2) Basic wildlife sciences: Questions will be designed to test the ability of the candidate's knowledge about wildlife sciences. Such as, biogeography, ecology, wildlife and habitats in India, forest types in India, threatened wildlife of India, wildlife management practices, Protected areas in India and conservation biology.

3) Reasoning ability: The syllabus of General Intelligence includes questions of both verbal and nonverbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.

4) Remote sensing and GIS: Concept of Space, Basics of Cartography, Principles of Remote Sensing, Sensors, Image interpretation and Digital Image Processing, Global Positioning System, Geographical information Systems: Data Entry and Preparation, Spatial Data Generation, Concept of Database and Metadata, Spatial Modelling and Data Visualization. Basics of Landscape Ecology.

5) English Language Grammar: The syllabus of English grammar includes its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would be tested.



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6) Techniques in wildlife research

Wildlife research design, types of data and data collection techniques; sampling designs, Ethics in wildlife research, scientific communication, Reference management tools, Basic statistical analysis, Wildlife population estimations, Bio-analytical techniques, basic biochemistry and molecular biology.

Paper-2: Computer Based Skill Test/ Descriptive Test (50 Marks & Duration: 90 Minutes) for the post of Technical Assistant:

The skill test shall be conducted in a manner to check the practical knowledge of the candidate in the use of Computer like Typing, Document formatting and the skill of official drafting and preparing notes for various purpose of university administration. The candidate shall be accessed through a skill test to be conducted by the University through a committee duly constituted by Competent Authority.

Syllabus:

- Computer Based Skill Test on ICT
- Official Drafting and Noting of University Administration.
- The Computer based typing speed test (English & Gujarati Typing): 35 w.p.m.(Minimum)

General Instructions:

1. The question paper would be in English.
2. There shall be no negative markings
3. The minimum qualifying marks shall be 50% for all category candidates.
4. The final merit shall be drawn on the basis of combined scores of Paper-I (50 Marks and Paper-II (50 Marks) totalling to 100 Marks.
5. The candidate who obtained qualified marks and secures maximum marks will be selected provisionally on condition of verification of documents.
6. In case of tie, the candidate who obtained more marks in skill test/ Descriptive Test of 50 marks will provisionally be selected.
7. Examinations for the Non-Scientific posts will be conducted shortly. All candidates are advised to visit the University website regularly for updates.



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SCHEME OF EXAMINATION FOR DIRECT RECRUITMENT FOR OFFICE ASSISTANT

- **Scheme of the Examination for Office Assistant**

The following shall be the scheme of examination, components of written test and its syllabus for the post of OFFICE ASSISTANT.

A: Paper-1: Scheme of the Examination for Office Assistant

Paper -1	TEST COMPONENTS	Duration:50 Minutes	
		Number of Questions	Marks
1	General Awareness	10	10
2	Reasoning Ability	10	10
3	Knowledge of use of Computer	10	10
4	English Language Grammar	10	10
5	University Administration	10	10
	Total	50	50

B: Detailed Syllabus for Paper I:

- 1) **General awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- 2) **Reasoning ability:** The syllabus of General Intelligence includes questions of both verbal and nonverbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- 3) **Knowledge of use of Computer**
Computer Fundamentals, Operating System, Computer software, MS Word, processing, MS Excel-Spread Sheets, MS Power Point Presentation, Internet Usage etc.



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- 4) **English Language Grammar:** The syllabus of English grammar includes its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would be tested.

5) **University Administration**

Common Public University ACT-2023, Gujarat Civil Service Rules (GCSR), Gujarat Public Universities Uniform Statutes-2024, University Administration, RTI Act, UGC Act, UGC Regulations and amendments from time to time, Gujarat Purchase Policy, Procurement of Equipment and Services on GeM and otherwise.

Paper-2: Computer Based Skill Test/Descriptive Test (50 Marks & Duration: 90 Minutes) for the post of Office Assistant

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