

ALIGARH MUSLIM UNIVERSITY, ALIGARH

Scheme of Exam for Direct Recruitment for the post of Trained Graduate Teachers in AMU Schools

The Written test is of 120 marks (120 objective type multiple choice questions) carrying 01 mark for each question. The duration of written test will be 120 minutes without any time limit for each part individually.

Section Name – Nature of Questions

Part I- Proficiency in Language (12 marks)

A. General English (06 questions)

B. General Hindi (06 questions)

Part II- General Awareness, Reasoning & Proficiency in Computers (18 marks)

4. General Awareness & Current Affairs and Aligarh movement (10 questions)

5. Reasoning Ability (04 questions)

6. Computer Literacy (04 questions)

Part III- Perspectives on Education and Leadership (25 questions) (25 marks)

(a) Understanding the Learner (05 questions)

(b) Understanding Teaching Learning (05 questions)

(c) Creating Conducive Learning Environment (05 questions)

(d) School Organization and Leadership (05 question)

(e) Perspectives in Education (05 questions)

Part IV-Subject-specific Syllabus (65 marks)

Professional Competency Test:

The Professional Competency Test is of 70 marks (Demo Teaching 70 Marks).

Note: The Weightage of Written Test & Demo Teaching in drawing the Final Merit list will be 30:70 respectively.

Syllabus of Exam for Direct Recruitment of Trained Graduate Teachers:

Part I - Proficiency in Languages

(12 marks):

- (a) General English (10 questions)
Reading comprehension, word power, Grammar & usage
- (b) General Hindi (10 questions)
पठन कौशल शब्द सामर्थ्य, व्याकरण एवं प्रयुक्ति

Part II - General awareness, Reasoning & Proficiency in Computers

(18 marks):

- (a) General Awareness & Current Affairs and Aligarh movement (10 questions)
- (b) Reasoning Ability (4 questions)
- (c) Computer Literacy (4 questions)

Part III - Perspectives on Education and Leadership

(25 marks):

(c) Understanding the Learner (10 questions)

- Concept of growth, maturation and development, principles and debates of development. development tasks and challenges Domains of Development: Physical, Cognitive, Socio-emotional, Moral etc., deviations in
- Development and its implications.
- Understanding Adolescence: Needs, challenges and implications for designing institutional Support.
- Role of Primary and Secondary Socialization agencies. Ensuring Home school continuity

(d) Understanding Teaching Learning (15 questions)

Theoretical perspectives on Learning -Behaviourism, Cognitivist and Constructivism with special reference to their implications for:

- I. The role of teacher
- II. The role of learner
- III. Nature of teacher-student relationship
- IV. Choice of teaching methods
- V. Classroom environment
- VI. Understanding of discipline, power etc.
- **Factors affecting learning and their implications for:**
 - I. Designing classroom instructions,
 - II. Planning student activities and,
 - III. Creating learning spaces in school.
- **Planning and Organization of Teaching-Learning**
 - I. Concept of Syllabus and Curriculum, Overt and Hidden Curriculum, Principles of curriculum organization
 - II. Competency based Education, Experiential learning, etc.
 - III. Instructional Plans: -Year Plan, Unit Plan, Lesson Plan

- IV. Instructional material and resources
- V. Information and Communication Technology (ICT) for teaching-learning
- VI. Evaluation: Purpose, types and limitations. Continuous and Comprehensive.
- VII. Evaluation, Characteristics of a good tool.
- VIII. Assessment of learning, for learning and as learning: Meaning, purpose and as considerations in planning each.
- Enhancing Teaching Learning processes: Classroom Observation and Feedback, Reflections and Dialogues as a means of constructivist teaching.

(c.) Creating Conducive Learning Environment (06 questions).

- The concepts of Diversity, disability and Inclusion, implications of disability as social construct, types of disabilities-their identification and interventions
- Concept of School Mental Health, addressing the-curative, preventive and promotive dimensions of mental health for all students and staff. Provisioning for guidance and counselling.
- Developing School and community as a learning resource.

(d) School Organization and Leadership (06 questions)

- Leader as reflective practitioner, team builder, initiator, coach and mentor.
- Perspectives on School Leadership: instructional, distributed and transformative.
- Vision building, goal setting and creating a School development Plan.
- Using School Processes and forums for strengthening teaching learning-Annual Calendar, time tabling, parent teacher forums, school assembly, teacher development forums, using achievement data for improving teaching-learning, School Self-Assessment and Improvement.
- Creating partnerships with community, industry and other neighbouring schools and Higher Education Institutes - forming learning communities.

(e) Perspectives in Education (03 questions)

- Role of school in achieving aims of education.
- NEP-2020: Curriculum and Pedagogy in Schools: Holistic & Integrated Learning: Equitable and Inclusive Education: Learning for All; Competency based learning and Education.
- Guiding Principles for Child Rights, Protecting and provisioning for rights of children to safe and secure school environment, Right of Children to free and Compulsory Education Act, 2009.
- Historically studying the National Policies in education with special reference to school education;
- School Curriculum Principles: Perspective, Learning and Knowledge, Curricular Areas, School Stages, Pedagogy and Assessment

Part IV- Subject-specific Syllabus (65 marks):

Note The Weightage of Written Test & Demo Teaching in drawing the Final Merit list will be 30:70 respectively.

Syllabus for Agriculture TGT

S.NO.	TOPIC
1.	Agriculture in India: History, importance, and scope; Food grain production since independence and its future projections; Food security and impact of globalization on Agriculture; Technological and Institutional reforms and scope of commercialization of Agriculture in India.
2.	Agroforestry, Sericulture, Beekeeping/Apiculture: Importance and scope in India.
3.	Seed: Important parts; types and production of seeds.
4.	Plant cell: cell structure and its division; Mendel's laws of inheritance; Role of Genetics in Plant breeding; self and cross-pollinated crops; methods of breeding in field crops; tissue and cell culture; scope of Plant Biotechnology in crop production
5.	Agrometeorology: Important elements and impact of climate change in relation to crop production.
6.	Tillage and Agricultural implements: Principles and practices of tillage operations in crops and use of various agricultural implements.
7.	Soil and soil fertility: Soil types of India and their characteristics (Soil pH, soil texture, soil structure, soil organisms, soil fertility and soil health);
8.	Plant nutrients: Essential plant nutrients; their functions and deficiency symptoms. Fertilizers and Manures: Organic manure; common fertilizers including straight, complex, fertilizer mixtures; biofertilizers; Integrated nutrient management system.
9.	Irrigation and drainage: Sources of irrigation; scheduling of irrigation based on critical stages of growth, time interval, soil moisture content and weather parameters; water requirement of crops; methods of irrigation and drainage; watershed management.
10.	Sustainable crop production and farming systems: Cropping seasons and Crop rotation; Intercropping, Mixed cropping, Organic farming, Rainfed farming, Dry farming and Shifting cultivation; Classification of field crops and cultivation practices of some major cereals, pulses, millets, oil seeds, fiber, sugar and forage crops, non-food crops (medicinal and aromatic plants, plantation and spice crops); Importance of cash and catch crops.
11.	Weed management: weeds of important crops; principles and methods of weed control;
12.	Insect pests of crops: Major insect pests of economically important field crops, vegetables, fruit crops and their management; Integrated Pest Management (IPM).
13.	Diseases of crops: Causes of plant diseases; major diseases of economically important field crops, vegetables, fruit crops and their management with the use of pesticides, organic amendment and bioagents. Integrated disease management (IDM).
14.	Horticulture: Importance of Olericulture, Floriculture and Pomology; Importance of fruits and vegetables in human diet, crop diversification and processing industry; Layout of Orchard, ornamental gardening and kitchen gardening; Propagation by seed, cutting, budding, layering and grafting; Cultivation practices of fruits – (i) mango, papaya, banana, guava, citrus, grapes (ii) Vegetables - Radish, carrot, potato, onion, cabbage, cauliflower, brinjal, tomato and spinach. (iii) Flowers - Gladiolus, canna, chrysanthemums, roses and marigold; Principles and methods of fruit and vegetable preservation.
15.	Animal husbandry and Dairying: Importance of livestock in agriculture and industry; Important livestock breeds and their distribution in India; White revolution in India Livestock care and management; Common diseases of livestock their prevention and control, Livestock improvement through breeding and modern techniques; Dairy management; Processing and marketing of milk and milk products.