

SAMAGRA SHIKSHA, UT, CHANDIGARH
3rd Floor, Additional Deluxe Building, Sector-9-D,
Chandigarh

NOTICE

SYLLABUS FOR THE POST OF TGT

Samagra Shiksha, Chandigarh invited online applications from eligible candidates to fill up 90 posts of Trained Graduate Teachers (TGTs) for which advertisement was published/uploaded on 08.09.2022. Closing date for receipt of online applications was 03.10.2022.

It is notified for the information of all the applicants that the detailed topics/syllabus for the Written Examination for the posts of TGT has been uploaded on website i.e. <https://online.ctestservices.com/nitttrgt/>

Place: Chandigarh
Date: 12th October, 2022

State Project Director
Samagra Shiksha, Chandigarh

TOPICS/CURRICULUM FOR THE POSTS OF TGTs

Questions relating to subject specific (relating to post)-100 Questions

Note: Difficulty level of questions relating to subject specific will be as per essential qualification prescribed for the post as mentioned in Advertisement (Pt. No. iii) under Mode of Selection and Scheme of examination)

1. Name of the post: TGT (Science- Medical)

Zoology:

Non-chordata and Chordata- Protozoans, Parazoa, Cnidaria, Platyhelminthes, Aschelminthes, Annelids, Arthropoda, Mollusca, Echinodermata, Protochordates, Pisces, Amphibia, Reptilia, Aves, Mammals. Cell Biology, Ecology, Genetics and evolution, Biochemistry, Physiology, Developmental Biology, Economic Zoology.

Botany:

Bacteria and virus, Cryptogams: Algae, fungi, lichens, bryophytes, pteridophytes, Phanerogams: Gymnosperms; angiosperms. Economic Botany, Plant Anatomy, Plant Physiology, Plant Biochemistry, Cell Biology, Genetics, Molecular Biology and Evolution, Ecology and Plant Geography, Plant Breeding, Plant Biotechnology.

Chemistry:

Atomic Structure, Chemical Bonding, Periodic Properties of elements- Chemistry of Coordination Compounds, Acids and Bases, Oxidation & Reduction, Non aqueous solvents, Metal – Ligand Bonding in Transition Metal Complexes, Thermodynamic and Kinetic Aspects of Metal Complexes Chemistry, Bioinorganic Chemistry, Silicones and Phosphazenes.

Carbon and its derivatives- Structure and Bonding, Mechanism of organic Reactions, Stereochemistry of organic compounds, Fats, Oils and Detergents, Organic Compounds of Nitrogen, Heterocyclic Compounds, Carbohydrates, Amino Acids, Peptides, Proteins and Nucleic Acids, Synthetic Polymers, Solid, Liquid and gaseous states, Chemical kinetics, Chemical Thermodynamics, Colloidal states, Solutions, Dilute Solutions and Colligative Properties, Chemical equilibrium, Thermo chemistry, Colligative Properties, Electro chemical Cells, Phase equilibrium, Elementary Quantum Mechanics, Photochemistry.

2. Name of the post: TGT (Science- Non- Medical)

Physics:

Mechanics, Vibrations, Waves & Electromagnetic Theory, Electricity and Magnetism, Thermodynamics, Ray Optics and Wave Optics, Quantum Physics, Electronics and Solid State Devices, Nuclear Physics.

Chemistry:

Atomic Structure, Chemical Bonding, Periodic Properties of elements- Chemistry of Coordination Compounds, Acids and Bases, Oxidation & Reduction, Non aqueous solvents, Metal – Ligand Bonding in Transition Metal Complexes, Thermodynamic and Kinetic Aspects of Metal Complexes Chemistry, Bioinorganic Chemistry, Silicones and Phosphazenes,

Carbon and its derivatives- Structure and Bonding, Mechanism of organic Reactions, Stereochemistry of organic compounds, Fats, Oils and Detergents, Organic Compounds of Nitrogen, Heterocyclic Compounds, Carbohydrates, Amino Acids, Peptides, Proteins and Nucleic Acids, Synthetic Polymers, Solid, Liquid and gaseous states, Chemical kinetics, Chemical Thermodynamics, Colloidal states, Solutions, Dilute Solutions and Colligative Properties, Chemical equilibrium, Thermo chemistry, Colligative Properties, Electro chemical Cells, Phase equilibrium, Elementary Quantum Mechanics, Photochemistry.

Mathematics:

Number system, Mensuration, Geometry, Coordinate Geometry, Statistics, Probability, Trigonometry, Matrices, Sets and Function, Algebra, Relations and functions, Mathematical Reasoning, Trigonometric Functions, Calculus, Vectors and three dimensional Geometry, Linear Programming (Difficulty level will be upto Graduation Level)

3. Name of the post: TGT (Mathematics)

Number system, Mensuration, Geometry, Coordinate Geometry, Statistics, Probability, Trigonometry, Matrices, Sets and Function, Algebra, Relations and functions, Mathematical Reasoning, Trigonometric Functions, Calculus, Vectors and three dimensional Geometry, Linear Programming (Difficulty level will be up to Graduation Level)

4. Name of the post: TGT (English)

English Elective:

I. Reading Comprehension (Unseen Passage)

II. Composition

Paragraph Writing, Essay Writing, Note making, Precis Writing, Letter writing, Report writing

III. Grammar and Vocabulary

Voice, Narration, Preposition, Conjunctions, Synonyms, Antonyms, Translation from Vernacular to English, Punctuation, Transformation of Sentences, Corrections, Idioms and Phrases, One Word Substitution, Articles, Use of Words/Phrases in Sentences, Use of same words as different parts of Speech, Identifying Figures of Speech, Complete the incomplete Sentences, Pairs of Words to be Used in Sentences, One word for many and use in sentence, Change the form of Nouns/Verbs/Adjectives and make sentences, Determiners, Modals

IV Literature

1. Description of various Literary Terms and Concepts
2. Shakespeare's Works
3. Major Works of Poets of Classicism, Romantic and Victorian Periods (e.g. Thomas Hardy, Mathew Arnold, Robert Browning, Tennyson, John Keats, William Wordsworth, William Blake, Thomas Gray, John Donne, Alexander Pope etc.)
4. Major works of 19th and 20th Century American and English Literature (e.g. Philip Larkin, Robert Frost, Hemingway, Ted Huges, Whitman, Hawthorne, Emily Dickinson, Bernard Shaw, T. S. Eliot, W. B. Yeats, Hopkins etc.)
5. Indian Writing in English (e.g. R.K. Narayan, Anita Desai, Vikram Seth, Nissim Ezekiel, K.N. Daruwala, Ruskin Bond, Mulk Raj Anand, Khushwant Singh, Ramanujan etc.)
6. Modern Writing in English from Different parts of the world

5. **Name of the post: TGT (Hindi)**

हिन्दी साहित्य का इतिहास

आदिकाल, भक्तिकाल, रीतिकाल, आधुनिक काल

हिन्दी गद्य का विकास, गद्य विधाएँ,

हिन्दी भाषा का उदभव और विकास

भारतीय काव्यशास्त्र और पाश्चात्य काव्यशास्त्र

व्याकरण :- ध्वनि एवं वर्ण, शब्द एवं शब्द भेद, उपसर्ग एवं प्रत्यय, संज्ञा और उसके भेद, लिंग एवं उसके भेद, वचन एवं उसके भेद, कारक एवं उसके भेद, सर्वनाम एवं उसके भेद, क्रिया एवं उसके भेद, क्रिया-विशेषण एवं उसके भेद, सन्धि एवं उदके भेद, समास एवं उसके भेद, वाच्य-परिवर्तन, पर्यायवाची और विलोम शब्द, अनेक शब्दों के एक शब्द, मुहावरे और लोकोक्तियाँ रस और उसके भेद,

छन्द और उसके भेद,

अलंकार और उसके भेद,

अपठित

6. **Name of the post: TGT (Punjabi)**

ਕਵਿਤਾ : ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ' ਨਕਸ਼ ਨੁਹਾਰ ' (ਸੰਪਾ.) ਡਾ. ਜਸਵਿੰਦਰ ਸਿੰਘ, ਮੱਧਕਾਲ ਦੀ ਚੋਣਵੀਂ ਕਵਿਤਾ ' ਮੱਧਕਾਲੀ ਕਾਵਿ ਸੁਰੰਧੀਆਂ ' (ਸੰਪਾ.) ਡਾ.ਧਰਮ ਸਿੰਘ ਅਤੇ ਪੁਰਾਤਨ ਪੰਜਾਬੀ ਕਾਵਿ ' ਸ਼ਬਦ ਸਵੇਰਾ ') ਸੰਪਾ.) ਹਰਿਭਜਨ ਸਿੰਘ (ਪਬਲੀਕੇਸ਼ਨ ਬਿਊਰੋ ,ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ , ਚੰਡੀਗੜ੍ਹ) ਪੁਸਤਕਾਂ ਵਿਚੋਂ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਅਤੇ ਕਵਿਤਾਵਾਂ ਦਾ ਵਿਸ਼ਾ - ਵਸਤੂ / ਥੀਮ ਸਪਸ਼ਟ ਕਰਨਾ) ਪੰਜਾਬੀ ਇਕਾਂਗੀ ' ਛੇ ਦਰਸ਼ਨ ' ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ ਅਤੇ ਪੰਜਾਬੀ ਨਾਟਕ ' ਮੁਇਆ ਸਾਰ ਨਾ ਕਾਈ ' ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ ਦਾ ਵਿਸ਼ੇ ਅਤੇ ਕਲਾ ਪੱਖੋਂ ਅਧਿਐਨ I ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ ' ਕਥਾ - ਪ੍ਰਵਾਹ ') ਸੰਪਾ.) ਸੁਰਿੰਦਰ ਕੁਮਾਰ ਦਵੇਸ਼ਵਰ ਅਤੇ ਪੰਜਾਬੀ ਨਾਵਲ ' ਦੁਆਬਾ ' ਅਫ਼ਜ਼ਲ ਅਹਿਸਨ ਰੰਧਾਵਾ ਦੀ ਸਾਹਿਤਕ ਪਰਖ I ਪੰਜਾਬੀ ਨਿਬੰਧ , ' ਨਿਬੰਧ ਪ੍ਰਕਾਸ਼ ' , (ਸੰਪਾ.) ਕਰਨੈਲ ਸਿੰਘ ਥਿੰਦ ਅਤੇ ' ਸੱਚੇ ਸੱਚ ' ਅਮਰੀਕਾ ਦਾ ਸਫ਼ਰਨਾਮਾ ਦਾ ਅਧਿਐਨ (ਪਬਲੀਕੇਸ਼ਨ ਬਿਊਰੋ ,ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ , ਚੰਡੀਗੜ੍ਹ) ਸਾਹਿਤ ਦੇ ਵੱਖ - ਵੱਖ ਰੂਪਾਂ ; ਕਵਿਤਾ , ਗੀਤ , ਗਜ਼ਲ , ਨਾਵਲ , ਨਾਟਕ , ਕਹਾਣੀ , ਜਨਮਸਾਖੀ , ਸ਼ਲੋਕ , ਕਾਫ਼ੀ , ਕਿੱਸਾ , ਵਾਰ , ਜੰਗਨਾਮਾ ਅਤੇ ਸੀਹਰਫ਼ੀ ਬਾਰੇ ਮੁਢਲੀ ਤੇ ਸੰਖੇਪ ਸਾਹਿਤਕ ਜਾਣਕਾਰੀ I ਭਾਸ਼ਾ : ਪਰਿਭਾਸ਼ਾ , ਪ੍ਰਕਿਰਤੀ , ਰੂਪ ਅਤੇ ਮਹੱਤਵ I ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਖੇਤਰ I ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੇ ਜਨਮ , ਵਿਕਾਸ ਅਤੇ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਬਾਰੇ ਮੁਢਲੀ ਜਾਣਕਾਰੀ I

ਵਿਆਕਰਨ : ਵਰਨ - ਬੋਧ , ਸ਼ਬਦ - ਬੋਧ , ਵਾਕ -ਬੋਧ , ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ , ਅਗੇਤਰ-ਪਿਛੇਤਰ , ਸੁੱਧ-ਅਸੁੱਧ , ਸਮਾਸੀ ਸ਼ਬਦ, ਵਿਰੋਧੀ ਸ਼ਬਦ , ਬਹੁਅਰਥਕ ਸ਼ਬਦ , ਵਿਸਮਿਕ ਸ਼ਬਦ , ਮੁਹਾਵਰੇ , ਅਖਾਣ, ਅਲੰਕਾਰ , ਪੈਰ੍ਹਾ ਰਚਨਾ, ਸੰਖੇਪ ਰਚਨਾ , ਚਿੱਠੀ - ਪੱਤਰ ਰਚਨਾ I

ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ : ਆਦਿ ਕਾਲ ਤੋਂ 2000 ਈਸਵੀ ਤਕ : ਕਵਿਤਾ , ਨਾਟਕ , ਇਕਾਂਗੀ , ਨਾਵਲ , ਕਹਾਣੀ , ਸਫ਼ਰਨਾਮਾ , ਵਾਰ , ਜੰਗਨਾਮਾ , ਵਾਰਤਕ , ਗੁਰਮਤ , ਸੂਫੀ ਅਤੇ ਕਿੱਸਾ ਸਾਹਿਤ ਸੰਬੰਧਿਤ ਮੁਢਲੀ ਜਾਣਕਾਰੀ I

7. Name of the post: TGT (Social science)

History:

Major Sources of History, Foundation of British Rule, The Uprising of 1857, Socio-Religious Reform Movements, Contribution of Jyotiba Phule, Dr. B.R. Ambedkar and Mahatma Gandhi, Growth of Political Consciousness, Rise of Communal Politics, Towards Partition and Independence, Significant Developments after Independence, 1947- 64.

World History: The American Revolution, The French Revolution, The Industrial Era, World War-I, World War II and Establishment of UN.

Geography:

Nature & Scope of Geography, Physical Geography (Geomorphology, Climatology Oceanography) and Human Geography, India in the context of South Asia, World Regional Geography.

Political Science:

The State and its theories, Welfare State, Sovereignty, Political System, Political Culture, Political Socialisation, Rights & Duties, Universal Declaration of Human Rights, Democracy and its theories, Indian Constitution, Working of the institutions-Parliament and Judiciary, Fundamental Rights, Fundamental Duties, Directive Principles of Policy, The Election Commission, Electoral reforms in India, Pressure Groups in Indian Politics, Emerging Trends in Indian Politics, Indian Foreign Policy, Non-alignment Movement. International Politics, National Power, Bipolar, Unipolar and Multi-Polar World, Regional Organisations.

Economics:

Meaning, Nature and Scope of Economics, Important theories of economics, People as resource, Food security, Growth/Development and structural development.

Macro-Economics and its policies, Consumption Function, Investment Function, Determination of Income and Employment, Taxation, Terms of Trade, Regional Blocks, Impact of W.T.O. IMF and IBRD.

Indian Economy: Features and Characteristics of Indian Economy, Role of MNCs in India. Planning, Major Indian Economic Problems.

Sociology:

Origin, Nature, Development and Significance of the Sociology and its theories, Social Groups, Socialization, Social Stratification and its theories. Social Mobility, Social Institutions, Political Institutions, Economic Institutions. Cultural Institutions. Society in India, Institutional Features, Changing Trends, Under-privileged Sections, Social Disorganization, Problems of Adolescence, Familial Problems, Problems of working women and Societal Problems.

Psychology:

Nature, Goals and Branches of Psychology, Growth and Development, Concept and types of Emotions, Emotional Intelligence, Theories of Motivation, Personality, Psychoanalytics, Cognitive Development, Intelligence, Learning Concept, Memory Sensory Register, Creativity.

Clinical Psychology: Nature and Criteria of abnormality, Causes of Abnormal Behaviour, Stress and types of Stressors, coping Strategies, Behavioural Disorders, Anxiety Based Disorders, Psychotherapies,

Significance of Statistics: Self Report Measures and Behavioural Assessment.

Public Administration:

Meaning, Nature, Scope and Significance of Public Administration, Organization and its forms, Principles of Organization, Features of Indian Administration, Union Executive, Union Legislature, State Executive, State-Legislature, Union and State Judiciary, Control over Administration, The 73rd and 74th Constitutional Amendment, India as a Welfare State, Planning Machinery in India, Role of Public Enterprises, Concept of Privatisation and, Role of Ministries and State Administration.