

**TOPICS/CURRICULUM FOR THE POSTS OF TGTs****Questions relating to subject specific (relating to post)-75 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, Electrochemical 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 19<sup>th</sup> and 20<sup>th</sup> 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, किर्या एवं उसके भेद, किर्या-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)**

रहिता : ायुनिर थंजाधी रहिता ' नरम नुगार ' (मंथा. ) डा. नमद्विंदर मिथ, भंयराल दी चेटवीं रहिता ' भंयराली राद्वि सुगंयीणां ' ( मंथा. ) डा. यरभ मिथ ाते युगुतन थंजाधी राद्वि ' मघद मदेरा ' ( मंथा. ) गुरिडनन मिथ ( थगलीरेमन घिउरे , थंजाघ युनीदरमिटी , चंडीगडू ) युमउरं दिचें थरुमंग मगिउ दिगाधिगा ाते रहितादां दा दिमा - दमडु / धीभ मथमट ररना )

थंजाधी टिरांगी ' डे दरमन ' मंड मिथ मेथें ाते थंजाधी नाटर ' भुटिगा मार ना राटी ' मंड मिथ मेथें दा दिमे ाते रला थंथें ायिगैन I रगाटी मंगरुगि ' रथा - थरुदाग ' ( मंथा. ) सुविंदर रुभार ददेमदर ाते थंजाधी नादल ' दुगाघा ' ादलल ागिमन रंयादा दी मागिउर थरथ I

थंजाधी तिघंय , ' तिघंय थरुदाम ' , (मंथा. ) ररनैल मिथ थिंद ाते ' मंथे मंथ ' ाभरीरा दा मदरनाभा दा ायिगैन ( थगलीरेमन घिउरे , थंजाघ युनीदरमिटी , चंडीगडू )

मागिउ दे दंथ - दंथ रूथां ; रहिता , गीउ , गजल , नादल , नाटर , रगाटी , ननभमाधी , मलैर , राढी , रिंमा , दार , नंगनाभा ाते मीगरढी घारे भुदली ते मंथेथ मागिउर नाटरारी I

डामा : थरिडामा , थरुदरिउती , रूथ ाते भगुंडद I डामा दिगिगात दी थरिडामा ाते थेउर I

थंजाधी डामा ाते गुरभुधी लिथी दे ननभ , दिराम ाते दिमेमउदां घारे भुदली नाटरारी I

दिगादरन : दरन - घेय , मघद - घेय , दार - घेय , दिमराभ चिंतु , ागोउर-थिडेउर , सुंय-ासुंय , मभामी मघद , दिरेयी मघद , घगुारथर मघद , दिमभिर मघद , भुगादरे , ाधाद , ालंरार , थैरगा रचना , मंथेथ रचना , चिंठी - थंउर रचना I

थंजाधी मागिउ दा टिउिगम : ादि राल उें 2000 टीमदी उर : रहिता , नाटर , टिरांगी , नादल , रगाटी , मदरनाभा , दार , नंगनाभा , दारउर , गुरभउ , सुढी ाते रिंमा मागिउ मंथंयिउ भुदली नाटरारी 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 73<sup>rd</sup> 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.

