

SYLLABUS
FOR
TEACHER ELIGIBILITY TEST, 2022

(TET EXAMINATION)

(PAPER I & PAPER II)

Developed by:
**STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING
MANIPUR**

&
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**BOARD OF SECONDARY EDUCATION
MANIPUR**

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BOARD OF SECONDARY EDUCATION, MANIPUR

NOTIFICATION

Imphal the 18th November, 2022

No. MSTET/11-2/ It is hereby notified for information of all the eligible candidates and Government school teachers that, the Board of Secondary Education, Manipur is conducting Teacher Eligibility Test (TET), 2022.

The Board of Secondary Education, Manipur will be conducting the Teacher Eligibility Test (TET), 2022 for all the eligible candidates and Government school teachers together as per convey approval letter no. SM3-501/1/2022-EDN(S)-EDN(S) dt. 14/11/2022 of the Govt. of Manipur, Secretariat: Education(S) Department and vide letter No. 12(HC)/104/2019-SE(S)PT dt. 10th November, 2022 Secretariat: Education (S) Department addressed to the Director of Education (S), Manipur for Classes I to VIII and the test will be conducted in 15 (fifteen) languages.

Scheme of Examination

1. Paper I : (150 marks). For those who want to become teacher for classes I to V (Primary Teacher) - **Time duration for the Test/Exam. shall be 2.30 hrs/150 Minutes.**

There will be 5 (five) sections carrying 30 marks each of Multiple Choice

Question only.

- i) Child development and pedagogy.
- ii) Language I (English).
- iii) Language II (MIL) - one from amongst the Languages listed in the Application Form **OR Language II (English II)**
- iv) Mathematics.
- v) Environmental Studies.

2. Paper II : (150 marks). For those who want to become teacher for classes VI to VIII (Upper Primary Teacher). **Time duration for the Test/Exam. shall be 2.30 hrs/150 minutes.**

There will be 4 (four) sections of Multiple Choice Question only,

- i) Child development and pedagogy (compulsory) - 30 marks.
- ii) Language I (English) - (compulsory) 30 marks.
- iii) Language II (MIL) - one from amongst the Languages listed in the Application Form **OR Language II (English II)** - (compulsory) 30 marks.
- iv) (a) For Mathematics and Science Teacher
Mathematics and Science - 60 marks of MCQ (1 mark each).
(b) For Social Science Teacher - Social Science - 60 marks of MCQ (1 mark each).
(c) For any other teacher - either (a) or (b) above.

There will be two tests held, Paper I and Paper II, **on the same day, one in the morning and the other in the evening.** Those interested in teaching from classes I to VIII will have to appear and qualify in both the papers (Paper I and Paper II).

The pass mark is 60% for general candidates and 50% for OBC, ST, SC and Physically challenged candidates.


(Dr. S. Mangijao Singh)

Secretary

GUIDELINES FOR TEACHER ELIGIBILITY TEST (TET)

In accordance with the provisions of sub-section (1) of Section 23 of the Right of Children to Free and Compulsory Education (RTE) Act, 2009, which has been implemented in Manipur, the National Council for Teacher Education (NCTE) had vide Notification dated 23rd August, 2010, laid down the minimum qualifications for a person to be eligible for appointment as a teacher in classes I to VIII. It had been inter alia provided that one of the essential qualifications for a person to be eligible for appointment as a teacher in any of the schools referred to in clause (n) of section 2 of the RTE Act is that he/ she should pass the Teacher Eligibility Test (TET) which will be conducted by the Board of Secondary Education, Manipur, in accordance with the Guidelines framed by the NCTE.

The rationale for including the TET as a minimum qualification for a person to be eligible for appointment as a teacher is as under:

- i) It would bring national standards and benchmark of teacher quality in the recruitment process;
- ii) It would induce teacher education institutions and students from these institutions to further improve their performance standards;
- iii) It would send a positive signal to all stakeholders that the Government lays special emphasis on teacher quality

NATURE AND STANDARD OF TET QUESTIONS:

The test items on Child Development and Pedagogy will focus on educational psychology of teaching and learning, relevant to the age group 11-14 years. They will focus on understanding the characteristics, needs and psychology of diverse learners, interaction with learners and the attributes and qualities of a good facilitator of learning.

The test items for Language I will focus on the proficiency related to the medium of instruction, as chosen from list of prescribed options in the application form.

The Language II will be a language other than Language I. A candidate may choose any one language from among the available options and as in the specified list in the application form and attempt questions in the one indicated by the candidate in the application form by him. The Test items in Language II will also focus on the elements of language, communication and comprehension abilities.

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The test items in Mathematics and Science, and Social Studies/Social Science will focus on the concepts, problem solving abilities etc. The test items of Mathematics and Science will be of 30 marks each. The test items will be evenly distributed over different divisions of the syllabus of that subject as prescribed for classes VI-VIII by the Board.

The questions in the tests for Paper II will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes VI-VIII but their difficulty standard as well as linkages could be up to the senior secondary stage.

The minimum qualifications for appearing in the test (TET), date for issue and submission of Application Forms, Examination date, fees etc. will be notified shortly.

FREQUENCY OF CONDUCT OF TET AND VALIDITY PERIOD OF THE CERTIFICATE:

The test will be held every year and as per NCTE order No. NCTE-Reg1011/78/2020-US(Regulation)-HQ/99954-99992 dated 09.06.2021, the validity period for TET qualifying certificate will remain valid for life. There will be no restriction on the number of attempts a person can take for acquiring the TET certificate. A person who has qualified TET may also appear again for improving his/her score. However, qualifying the TET would not confer a right on any person for recruitment/employment as it is only one of the eligibility criteria for appointment.

TET Exam Pattern:

The TET is being held for finding teacher eligibility for teaching two groups of students:

- i) One has to appear Paper I if he/she wants to teach in Class I-V.
- ii) One has to appear Paper II if he/she wants to teach in Class VI-VIII.
- iii) One has to appear both Paper I and Paper II if he/she wants to teach in Class I-VIII.

One has to obtain minimum 60% marks for general candidates and 50% for OBC, ST, SC and Physically Challenged candidates in these papers to qualify in TET, following which TET certificate would be given which will be valid for 7 years.

There is no restriction to the number of times one can appear in TET - also even after getting 60+% marks or 50+% marks noted above, one can appear in TET again to know his/her score.

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ISSUE OF APPLICATION FORM : 21st Nov, 2022 (Monday)
LAST DATE OF FORM SUBMISSION : 5th Dec, 2022 (Monday)

ELIGIBILITY CRITERIA :

The following persons are eligible for appearing in the TET, 2022.

Minimum Qualifications for becoming Teachers for Classes I – V (Primary Stage):

- i. Senior Secondary (or its equivalent) with at least 50% marks and 2 year Diploma in Elementary Education (by whatever name known). OR
- ii. Senior Secondary (or its equivalent) with at least 45% marks and 2 year Diploma in Elementary Education (by whatever name known) in accordance with the NCTE (Recognition Norms and Procedure), Regulations, 2002. OR
- iii. Senior Secondary (or its equivalent) with at least 50% marks and 4 years Bachelor of Elementary Education (B.El.Ed.). OR
- iv. Senior Secondary (or its equivalent) with at least 50% marks and 2 year Diploma in Education (Special Education). OR
- v. Graduation and two-year Diploma in Elementary Education (by whatever name known) OR
- vi. Graduation with at least 50% marks and Bachelor of Education (B.Ed.) OR
- vii. Post Graduation with a minimum 55% marks or equivalent grade and three-year integrated B.Ed-M.Ed.

Note: A person who is pursuing/admitted to any of the Teacher Education Courses (e.g. D.El.Ed, B.Ed, B.El.Ed, B.Ed-M.Ed. etc) shall be eligible for appearing in the TET Paper-I provided that his/her TET certificate shall be valid only on passing the examination of the aforesaid Teacher Education Courses.

Minimum Educational Qualifications for becoming Teacher for Classes VI - VIII (Upper Primary Stage).

- i. Senior Secondary (or its equivalent) with at least 50% marks and 4 year Bachelor in Elementary Education (B.El. Ed.). OR
- ii. Senior Secondary (or its equivalent) with at least 50% marks and 4 year B.A./B.Sc. Ed. or . B.A.Ed./B.Sc.Ed. or Graduation with at least 50% marks and 1 Year B.Ed. (Special Education).
- iii. Graduation and 2 year Diploma in Elementary Education (by whatever name known). OR

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- iv. Graduation with at least 50% marks and 1 year Bachelor in Education (B.Ed.). OR
- v. Graduation with at least 45% marks and 1 year Bachelor in Education (B.Ed.), in accordance with the NCTE (Recognition Norms and Procedure) Regulation issued from time to time in this regard. OR
- vi. Post Graduation with a minimum 55% marks or equivalent grade and three year integrated B.Ed - M.Ed.

Note: A person who is pursuing/admitted to any of the Teacher Education Courses (e.g. D.El.Ed, B.Ed, B.El.Ed, B.Ed-M.Ed. etc) shall be eligible for appearing in the TET Paper-II provided that his/her TET certificate shall be valid only on passing the examination of the aforesaid Teacher Education Courses.

The candidate not having any of the above qualification shall not be eligible for appearing in Teacher Eligibility Test (TET).

The candidate should satisfy his /her eligibility before applying and shall be personally responsible in case he/she is not eligible to apply as per the given eligibility criteria.

Note:

1. Relaxation up to 5% in the qualifying marks in the minimum Educational Qualification for eligibility shall be allowed to the candidates belonging to reserved categories, such as SC/ST/OBC/ Differently abled.
2. Diploma/Degree Course in Teacher Education: For the purposes of this Notification, a Diploma/Degree course in teacher education recognized by the National Council for Teacher Education (NCTE) only shall be considered. However, in case of Diploma in Education (Special Education) and B.Ed. (Special Education), a course recognized by the Rehabilitation Council of India (RCI) only shall be considered.
3. The minimum qualifications referred above apply to teachers of Languages, Social Studies/Social Science, Mathematics, Science etc. In respect of teachers for Physical Education, the minimum qualification norms for Physical Education teachers referred to in NCTE Regulation, dated 3rd November, 2001 (as amended from time to time) shall be applicable. For teachers of Art Education, Craft Education, Home Science, Work Education, etc. the existing eligibility norms prescribed by the State Governments and other school managements shall be applicable till such time the NCTE lays down the minimum qualifications in respect of such teachers.

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4. The Candidates/aspirants who have completed 18 months D.El.Ed Course conducted by NIOS shall be eligible to sit in the TET-2022
 5. The candidate should satisfy his/her eligibility before applying and shall be personally responsible in case he/she is not eligible to apply as per the given eligibility criteria. It is to be noted that if a candidate has been allowed to appear in the Teacher Eligibility Test it does not imply that the candidate's eligibility has been verified. It does not vest any right with the candidate for appointment. The eligibility shall be finally verified, by the concerned recruiting agency / appointing authority.
 6. Minimum percentage of marks in graduation shall not be applicable to those incumbents who had already taken admission to bachelor of Education or Bachelor of Elementary Education or equivalent course prior to the 29th July, 2011.
 7. The pass mark for TET - 2022 is 60% for General candidates and 50% for OBC, ST, SC and Physically challenged candidates.

The candidates not having any of the above qualifications are not eligible to apply for appearing in Teacher Eligibility Test (TET).

PATTERN OF EXAMINATION:

The Teacher Eligibility Test will be of objective type Multiple Choice Question (MCQ's). There will be 2 papers of TET and there will be no negative marking. **The time duration for the said Test/Examination shall be 2.30 hours/150 minutes.**

Paper - I will be for a candidate who intends to be a teacher for classes I to V.

Paper - II will be for a candidate who intends to be a teacher for classes VI to VIII.

NOTE : A person who intends to be a teacher for both levels (classes I to V and classes VI to VIII) has to appear in both the papers (Paper-I and Paper-II).

***Examination centres will be at IMPHAL only.Note:**

PAPER - I

(FOR CLSSES I TO V)

PRIMARY STAGE

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**STRUCTURE AND CONTENT OF SYLLABUS
(Teacher Eligibility Test)**

PAPER-I
(for classes I to V) Primary stage

1. **CHILD DEVELOPMENT AND PEDAGOGY** (30 questions)
(1 mark each of MCQ)

a) **CONTENT**

(The test items on Child Development and Pedagogy will focus on educational psychology of teaching and learning relevant to the age group of 6-11 years. They will focus on understanding the characteristics and needs of diverse learners, interaction with learners and the attributes and qualities of a good facilitator of learning.)

Child Development (Primary School Child) (15 questions)

- * Concept of Development and its relationship with growth and learning.
- * Principles of Development of Children.
- * Stages of Development of a child.
- * Process of Growth and Development - Physical, Cognitive, Emotional, Social, Moral, and language Development of children.
- * Influence of Heredity and Environment on Development of a child.
- * Role of Teacher, Parents and peers in the Development of a child.
- * Ideas of Piaget, Kohlberg and Vygotsky.
- * Concepts of child-centered and Progressive Education.
- * Concept of Intelligence.
- * Multi Dimensional Intelligence.
- * Individual Differences among Learners.
- * Enhancing Learning and critical Thinking and Assessing Learner's Achievement.

b) **Concept of Inclusive Education and Understanding children with special Needs.** (5 questions)

Learners from diverse backgrounds including disadvantaged and deprived. Children with learning difficulties, impairment etc. Gifted, Creative, specially abled Learners.

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c) **Learning and pedagogy** (10 questions)

- * How children think and learn.
- * Basic processes of Teaching and Learning as social activity; social context of learning.
- * Child as a problem solver.
- * Motivation and learning.
- * Factors contributing to learning, personal and environmental.

2. **LANGUAGE - I (ENGLISH)** (30 questions)
(1 mark each of MCQ)

a. **CONTENT** (15 questions)
(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes I- V but their difficulty standard, as well as linkages, could be upto the secondary stage)

- * Language Comprehension - Two unseen passages.
- * The following items should be reflected in the questions:
- * Vocabulary test, Parts of speech, Sentence
- * Improvement, Determiners, Marks of punctuation, Phrases and idioms, Passage completions

All questions on comprehension will be from the two unseen passages.

b. **Pedagogy of Language Development** (15 questions)

Language Learning and acquisition. Principles of language teaching. Language skills. Role of speaking and listening in the function of language with special reference to the Use of language by children. Role of grammar in learning a language and communicating ideas verbally and in written form. Challenges of teaching in a diverse classroom; language difficulties, errors and disorders. Evaluating language comprehension and proficiency with reference to the four skills. Multilanguage resource of the classroom. Remedial teaching. Basic element of classroom management.

3. **LANGUAGE - II (*MODERN INDIAN LANGUAGE)** (30 questions)
(1 mark each of MCQ)

(Modern Indian languages recognized by the Board of Secondary Education, Manipur are listed in the Application Form)*

a. **CONTENT** (15 questions)

(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes I- V but their difficulty standard, as well as linkages, could be upto the secondary stage)

Language Comprehension- Two unseen prose passages (discursive or

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literary or narrative or scientific) With questions on comprehension, grammar and verbal ability.

The following items should be reflected in the questions.

- * Comprehension test * Phrases and Idioms * Parts of Speech
- * Punctuation marks * Vocabulary test (including antonyms and synonyms)
- * Sentence transformation * Sentence improvement * Passage completion.

b. Pedagogy of Language Development (15 questions)

Language and its use. Acquisition of first language. Principles of language teaching. Role of grammar in language teaching. Language skills and their assessment. Teaching of literature and functional grammar. Teaching-learning materials: Textbook and multi-materials. Remedial teaching

OR

LANGUAGE - II (ENGLISH -II)

(** For candidates willing to opt English in lieu of Modern Indian languages recognized by the Board of Secondary Education, Manipur)

(30 questions)
(1 mark each of MCQ)

a. CONTENT : (15 questions)

(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes I- V but their difficulty standard, as well as linkages, could be upto the secondary stage)

- * Language Comprehension - Two unseen passages.
- * The following items should be reflected in the questions;
- * Determiners, Prepositions, Phrases, Correct spellings, Sentence Improvement, Correct order of sentences, One word substitution

All questions on comprehension will be from the two unseen passages.

b. Pedagogy of Language Development (15 questions)

Language Learning and acquisition. Principles of language teaching. Language skills. Role of speaking and listening in the function of language with special reference to the Use of language by children. Role of grammar in learning a language and communicating ideas verbally and in written form. Challenges of teaching in a diverse classroom; language difficulties, errors and disorders. Evaluating language comprehension and proficiency with reference to the four skills. Multilanguage resource of the classroom. Remedial teaching. Basic element of classroom management.

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4. **ENVIRONMENTAL STUDIES** (30 questions)
(1 mark each of MCQ)

(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes I- V but their difficulty standard, as well as linkages, could be upto the secondary stage) Our need: Our food, Cloths, Shelter, Air, Water.

Living and Non-living Organisms: Living organism - Characteristics ; differences from non-living.

Plants: Characteristics & uses. Animals: Different external and internal organs of human being; their important functions. Natural Resources. Healthy Habits : Good Habits, Diseases, Pollution and its preventions. The sun, the earth, stars and sky. Means of transport and communication. Story of wheel : Beginning of exploration of scientific means of transportation. Concept of distance, time and mass. Basic ideas of electricity and light and the related phenomenon around us. Weather and climate. Physical feature of India with special reference to Manipur. Disaster Management. National and state symbol. Stories of our Freedom Fighters. Some great personalities.

5. **MATHEMATICS** (30 Questions)
(1 mark each of MCQ)

a) CONTENT

(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes I- V but their difficulty standard, as well as linkages, could be upto the secondary stage)

Numbers: Natural numbers, Integers, Operations on Integers: Addition, Subtraction, Relation between the operation of addition and subtraction as the reverse process of each other; Testing the right choice of the operation in specific problems; The operations of multiplication and division among natural numbers, their relation as the reverse process of each other. Testing the right choice of operations of addition, subtraction, multiplication and division in the right order in specific word problems. Distinguishing characters of plane figures with special reference to triangle, square and circle. Identification of solids around us; special shapes of solid bodies: sphere, cube, cuboid, cone, cylinder. Different Units of measure: Length, Weight, Volume and time with subunits. Money: Indian money and its denominations. Patterns: Patterns in numbers/finding a missing number in a pattern or finding the next number or term in a pattern. Mathematical Symbols: Interpretation or simply reading a symbolic statement; Conversion of symbolic statement to common language and vice-versa.

Data handling by using pictographs and pie charts. Reading of calendar, determination of the day of the week given the day of a particular date. Reading the dial of the clock.

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PAPER - II
(FOR CLSSES VI TO VIII)
UPPER PRIMARY STAGE

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STRUCTURE AND CONTENT OF SYLLABUS
(Teacher Eligibility Test)

PAPER-II
(for classes VI to VIII) Upper Primary stage.

1. CHILD DEVELOPMENT AND PEDAGOGY (30 Questions)
(1 mark each of MCQ)
 - a) CONTENT
(The test items on Child Development and Pedagogy will focus on educational psychology of teaching and learning relevant to the age group 11-14 years. They will focus on understanding the characteristics needs and psychology of diverse learners, interaction with learners and the attributes and qualities of a good facilitator of learning.)
Child Development (Upper Primary School child) (15 questions)
Concept of development and its relationship with growth and learning. Principles of Development of Children. Stages of Development of a child. Process of growth and development-Physical, Cognitive, Emotional, Social, Moral, and Language Development of children. Influence of Heredity and Environment on Development of a child. Role of Teacher, Parents, and Peers in the Development of a Child. Ideas of Piaget, Kohlberg and Vygotsky. Concept of child-centered and Progressive Education. Concept of Intelligence. Multi Dimensional Intelligence. Individual differences among Learners. Enhancing Learning and Critical thinking and Assessing Learner's Achievement.
 - b) CONCEPT OF INCLUSIVE EDUCATION AND UNDERSTANDING CHILDREN WITH SPECIAL NEEDS. (5 questions)
Learners from diverse backgrounds including disadvantaged and deprived. Children with learning difficulties, impairment etc. Gifted, Creative, Specially abled Learners.
 - c) Learning and Pedagogy
How children think and learn. Basic processes of Teaching and Learning; Learning as a Social Activity; Social Context of learning. Child as a problem solver. Motivation and learning. Factors contributing to learning personal and environmental.

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2. LANGUAGE - I (ENGLISH)

(30 questions)
1 mark each of MCQ)

a) CONTENT

(15 questions)(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes VI- VIII, but their difficulty standard, as well as linkages, could be upto the senior secondary stage)

Language Comprehension-Two unseen passages.

The following items should be reflected in the questions:

Vocabulary Test including - Antonyms and synonyms * Comprehension Test * Reconstruction of sentences * Improvement of sentences * Completion of passage * Spelling Errors * Phrases and idioms * Voice - Active and Passive * Direct and Indirect speech * Parts of speech * Determiners * Tenses * Punctuations * Transformation of sentences.

All questions on comprehension will be from the two unseen passages.

b. Pedagogy of Language Development

(15 questions)

Language Learning and acquisition. Principles of language teaching. Language skills. Role of speaking and listening in the function of language with special reference to the Use of language by children. Role of grammar in learning a language and communicating ideas verbally and in written form. Challenges of teaching in a diverse classroom; language difficulties, errors and disorders. Evaluating language comprehension and proficiency with reference to the four skills. Multilanguage resource of the classroom. Remedial teaching. Basic element of classroom management.

3. LANGUAGE - II (*MODERN INDIAN LANGUAGE)

(30 questions)
(1 mark each of MCQ)

(* Modern Indian languages recognized by the Board of Secondary Education, Manipur are listed in the Application Form)

a) CONTENT

(15 questions)

(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes VI- VIII, but their difficulty standard, as well as linkages, could be upto the senior secondary stage)

Language Comprehension - Two unseen prose passages (discursive or literary or narrative or scientific) with Questions on comprehension grammar and verbal ability.

The following items should be reflected in the questions.

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Comprehension test * Phrases and Idioms * Parts of Speech * Punctuation marks * Vocabulary test(including antonyms and synonyms) * Sentence transformation * Sentence improvement * Passage completion.

b. Pedagogy of Language Development

(15 questions)

Language and its use. Acquisition of first language. Principles of language teaching. Role of grammar in language teaching. Language skills and their assessment. Teaching of literature and functional grammar. Teaching-learning materials: Textbook and multi-materials. Remedial teaching

OR

LANGUAGE - II (ENGLISH-II)

(** For candidates willing to opt English in lieu of Modern Indian languages recognized by the Board of Secondary Education, Manipur)

(30 questions)
(1 mark each of MCQ)

a) CONTENT:

(15 questions)

(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes VI- VIII, but their difficulty standard, as well as linkages, could be upto the senior secondary stage)

Language Comprehension-Two unseen passages.

The following items should be reflected in the questions:

* Verbs * Passive voice * Narration * Correct sentence * Phrases & idioms * Correct order of sentece * Correct spelling

All questions on comprehension will be from the two unseen passages.

b. Pedagogy of Language Development

(15 questions)

Language Learning and acquisition. Principles of language teaching. Language skills. Role of speaking and listening in the function of language with special reference to the Use of language by children. Role of grammar in learning a language and communicating ideas verbally and in written form. Challenges of teaching in a diverse classroom; language difficulties, errors and disorders. Evaluating language comprehension and proficiency with reference to the four skills. Multilanguage resource of the classroom. Remedial teaching. Basic element of classroom management.

4. (A) (i) SCIENCE

(30 Questions)
(1 mark each of MCQ)

(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes VI- VIII, but their difficulty standard, as well as linkages, could be upto the senior secondary stage)

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Nature and structure of matter: Separation of substances, Metals and non-metals. Changes around us. Structure of atom. Acids, Bases and salts. Carbon. Materials of daily use. The Solar system : The sun and its planets. Measurement. Force and motion : Types of motion; Definition of force ;Laws of force and its application. Heat and Temperature : Transfer of heat and Different Scales of temperature. Light : Concept of reflection, refraction, dispersion and their laws with application. Wave and sound. Electric charge at rest; flow of electric charge and Magnetism. Sources of energies. Living world; Characteristics and classification of the living beings. Structural organization and functions of living organisms. Cell structure, function and reproduction. Micro-organisms. Food-components; food production and management. Health and diseases. Environment.

4. (B) (ii) **MATHEMATICS** (30 Questions)
(1 mark each of MCQ)

(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes VI-VIII, but their difficulty standard, as well as linkages, could be up to the senior secondary stage)

Number: Natural Numbers, Whole numbers, Integers, Fractions; The four fundamental operations among integers. Ratio and Proportion. Arithmetic of trade: profit and loss, Percentage. Algebra: Algebraic expressions, Polynomials and multinomial. Operations of addition, subtraction, multiplication of algebraic expressions. Division of a polynomial by a linear polynomial. Plane figures with special properties of identification. Different types of triangles and properties of triangles associated with sides and the angles (Inequalities in triangles) Special points associated with a triangle: circum-centre, in centre, orthocentre and centroid of a triangle, pedal triangle of a triangle.

Symmetry and symmetrical figures in a plane; Line of symmetry and reflection. Construction of geometrical figures: Construction of an angle, the perpendicular bisector of a line segment, construction of a triangle with given sides, the base and the base angles. Solid figures: Solids like sphere, pyramid, cone, prism etc. Mensuration: Area, Volume and problems associated with area, volume and perimeters of plane figures. Data handling: Mean, Median and Mode of a data. Bar diagram and histogram of a data.

4. (C) **SOCIAL STUDIES/SOCIAL SCIENCE** (60 Questions)
(1 mark each of MCQ)

(The questions in the test will be based on the topics of the prescribed syllabus of the Board of Secondary Education, Manipur for classes VI- VIII, but their difficulty standard, as well as linkages, could be upto the senior secondary stage).

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(i) **HISTORY**

Studying the past; Early Man & His Life. Ancient Civilisations- Indus Valley Civilisation & Vedic civilization. Rise of States- Mahajanapadas; Rise of Magadha. New ideas. Mauryan Empire; Gupta Empire; Harshavardhana. Rise of small kingdoms in India in Medieval period. The Delhi Sultanate; The Mughal empire. States & Kingdoms in North-east India in the 15th Century. Religious Developments.

Manipur in early 18th Century. British conquest of India, Impact of the British rule; Manipur & the British, Manipur under British rule. Socio-Religious Reform Movements. Indian National Movement. The 2nd World War & Manipur.

(ii) **GEOGRAPHY**

Geography as a social study and as a science. The Earth in the Solar System. Latitude, longitude and motions of the earth. Natural environment : Air and Water. Human environment : Settlement, transport and communication with special Reference to Manipur. Life in hot and cold desert regions. Natural resources: Land, wildlife, natural vegetation, mineral and power resources. Agriculture. Human resources: Population-age and sex compositions, population change and Distribution with special reference to Manipur.

(iii) **POLITICAL SCIENCE & ECONOMICS**

Community Development. Local self Government in Rural and Urban areas. District Administration. Presentation of Public Property and Historical Movements. Merger of Manipur. State hood of Manipur. Indian Constitution and its basic values. National symbol and National Identity. Government at the Centre and States Directive Principles of State Policy. Fundamental Rights and Duties. The Role of Citizens. Diversities in India. The Scenario of 20th Century World. Human Rights and the problem of terrorism. India and United Nations. Population and Economic Development. Globalization and the World Trade Organization. The International Monetary Fund and the World Bank. Environmental Degradation and natural Disaster.

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