

**DETAILED SYLLABUS OF PRELIMINARY EXAMINATION FOR THE
POST OF LOWER DIVISION CLERK (NCA-D)-IDUKKI
(TAMIL AND MALAYALAM KNOWING) IN VARIOUS DEPARTMENT
(Category No.: 503/2024)**

PART I

(a) SIMPLE ARITHMETIC AND MENTAL ABILITY

1. ലഘുഗണിതം (5 മാർക്ക്)

I	സംഖ്യകളും അടിസ്ഥാന ക്രിയകളും
II	ലസാഗു, ഉസാഘ
III	ഭിന്നസംഖ്യകൾ
IV	ദശാംശ സംഖ്യകൾ
V	വർഗ്ഗവും വർഗ്ഗമൂലവും
VI	ശരാശരി
VII	ലാഭവും നഷ്ടവും
VIII	സമയവും ദൂരവും

2. മാനസികശേഷിയും നിരീക്ഷണപാടവ പരിശോധനയും (5 മാർക്ക്)

I	ഗണിത ചിഹ്നങ്ങൾ ഉപയോഗിച്ചുള്ള ക്രിയകൾ
II	ശ്രേണികൾ
III	സമാനബന്ധങ്ങൾ
IV	തരം തിരിക്കൽ
V	അർത്ഥവത്തായ രീതിയിൽ പദങ്ങളുടെ ക്രമീകരണം
VI	ഒറ്റയാനെ കണ്ടെത്തൽ
VII	വയസുമായി ബന്ധപ്പെട്ട പ്രശ്നങ്ങൾ
VIII	സ്ഥാന നിർണ്ണയം

(b) General Knowledge

(10 Marks)

Facts about India

Geography of India – Physical features – Climate – Soils – Rivers – Famous sites – etc.

Demography – Economic and social development – Poverty alleviation – Economy and planning – etc.

History of India – Period from 1857 to 1947 – National movement

Facts about Kerala

Geographical Facts – Physical features – Climate – Soils – Rivers – Famous sites – etc.

Current Affairs

Important world, national and regional events related to the political and scientific fields, sports, cinema and literature etc.

(c) Tamil Grammar, Usage & Vocabulary (20 marks)

- 1) Correct Word
- 2) Correct Structure of Sentence
- 3) Translation
- 4) Single Word
- 5) Synonyms
- 6) Antonyms / Opposite
- 7) Phrases and Proverbs
- 8) Equal Word
- 9) Join the Word
- 10) Gender Classification – Feminine, Masculine
- 11) Singular, Plural
- 12) Separate
- 13) Adding Phrases

PART II

(a) General Science (10 Marks)

(i) Life Science and Public Health (4 Marks)

1. Basic facts of Human Body
2. Vitamins and Minerals and their Deficiency Diseases
3. Communicable Diseases and Causative Organisms
4. Kerala – Welfare activities in Health Sector
5. Lifestyle Diseases.
6. Basic Health Facts
7. Environment and Environmental Hazards

(ii) Physics (3 Marks)

- 1) Branches of Physics –Matter - Units, Measurements - Physical Quantities.
- 2) Motion - Newton's Laws of Motion - Third law – Momentum - Projectile Motion - Uses of Third Law - Achievements in space missions in India-ISRO.
- 3) Light- Lens, Mirrors - Problems based on $r = 2f$ - Different phenomena of Light - Rainbow - Colours of different materials - Electromagnetic Spectrum – IR rays- UV rays - X rays - Photoelectric Effect.
- 4) Sound - Different types of Waves - Velocity of Sound in different media - Resonance – Reverberation.
- 5) Force - Different types of Forces – Friction - Advantages and disadvantages of Friction - Liquid Pressure - Buoyant Force – Archimedes Principle - Pascal's law – Density - Relative density- Adhesive Cohesive forces- Capillarity - Viscous force - Surface tension.
- 6) Gravitation - Centripetal Force - Centrifugal Force - Escape Velocity, Satellites - Escape Velocity - Weight Mass - value of 'g'- 'g' in different places.
- 7) Heat - Temperature - Different types of thermometers – Humidity - Relative Humidity.
- 8) Work - Energy - Power - Simple problems relating to Work, Energy, Power, Levers - Different types of Levers.

(iii) Chemistry (3 Marks)

1. Atom – Molecule - States of Matter – Allotropy - Gas laws - Aqua regia.
2. Elements - Periodic Table-Metals & Non metals-Chemical Physical changes- Chemical reactions-Solutions, Mixtures, Compounds.
3. Metals-Non metals – Alloys – Acids, Bases - pH value – Alkaloids.

(b) Indian National Movement and Renaissance in Kerala (10 Marks)

Important Events/Movements/Leaders

Brahmananda Swami Sivayogi, Chattampi Swami, Sree Narayana Guru, Vagbhatananda, Thycaud Ayya, Ayya Vaikundar, Poikayil Yohannan (Kumara Guru), Ayyankali, Pandit Karuppan, Mannathu Padmanabhan, V. T. Bhattathirippad, Dr. Palpu, Kumaranasan, Vakkom Moulavi, Blessed Kuriakose Elias Chavara, Etc.

(c) Malayalam Grammar, Usage and Vocabulary (20 Marks)

പദശുദ്ധി

വാക്യശുദ്ധി

പരിഭാഷ

ഒറ്റപദം

പര്യായം

വിപരീത പദം

ശൈലികൾ പഴഞ്ചൊല്ലുകൾ

സമാനപദം

ചേർത്തെഴുതുക

സ്ത്രീലിംഗം പുല്ലിംഗം

വചനം

പിരിച്ചെഴുതൽ

ഘടക പദം (വാക്യം ചേർത്തെഴുതുക)

GENERAL ENGLISH

i. English Grammar (10 Marks)

1. Types of Sentences and Interchange of Sentences.
2. Different Parts of Speech.
3. Agreement of Subject and Verb.
4. Articles - Definite and Indefinite Articles.
5. Uses of Primary and Modal Auxiliary Verbs
6. Question Tags
7. Infinitive and Gerunds
8. Tenses
9. Tenses in Conditional Sentences
10. Prepositions
11. The Use of Correlatives
12. Direct and Indirect Speech
13. Active and Passive voice
14. Correction of Sentences
15. Degrees of Comparison

ii Vocabulary (10 Marks)

1. Singular & Plural, Change of Gender, Collective Nouns
2. Word formation from other words and use of prefix or suffix
3. Compound words
4. Synonyms
5. Antonyms
6. Phrasal Verbs
7. Foreign Words and Phrases
8. One Word Substitutes
9. Words often confused
10. Spelling Test
11. Idioms and their Meanings
12. Expansion and meaning of Common Abbreviations

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There

is no undertaking that all the topics above may be covered in the question paper