Syllabus:

Scholarship Examination Syllabus for 8th Class Students

1. Mathematical and Numerical Ability:

a. **Number Systems**
   - Understanding integers, fractions, and decimals
   - Operations on integers, fractions, and decimals
   - Prime and composite numbers
   - LCM and HCF

b. **Algebra**
   - Basic algebraic expressions and equations
   - Simple linear equations
   - Factorization
   - Algebraic identities

c. **Geometry**
   - Basic concepts of geometry
   - Lines and angles
   - Triangles and their properties
   - Quadrilaterals
   - Circles

d. **Mensuration**
   - Area and perimeter of various shapes
   - Volume and surface area of solids

e. **Data Handling**
   - Collection and representation of data
   - Bar graphs, pie charts, and line graphs
   - Probability

2. Social Science:

a. **History**
   - Ancient civilizations (Indus Valley, Mesopotamia, etc.)
   - Medieval India

- Modern India
- Freedom Struggle and Independence

b. Geography

- Physical features of India
- Climate and vegetation
- Natural resources
- Maps and their interpretation

c. Civics

- Indian Constitution
- Fundamental Rights and Duties
- Democratic institutions
- Local self-government

d. Economics

- Basic economic concepts
- Agriculture and industry
- Money and banking
- Globalization and its impact

3. Science:

a. Physics

- Motion and time
- Force and pressure
- Light and sound
- Electricity and magnetism

b. Chemistry

- Matter and its properties
- Elements, compounds, and mixtures
- Acids, bases, and salts
- Chemical reactions

c. Biology

- Cells and tissues
- Nutrition and digestion
- Respiration and circulation
- Reproduction in plants and animals

4. General Knowledge:

- Current affairs related to national and international events
- Famous personalities in various fields
- Awards and honors
- Sports and games
- Basic knowledge of Kerala's history and culture

5. Language Comprehension:

a. **Reading Comprehension**
    - Extracting information from passages
    - Understanding the main idea and supporting details

b. **Vocabulary**
    - Synonyms and antonyms
    - One-word substitutions
    - Homophones and homographs

c. **Grammar**
    - Parts of speech
    - Sentence structure
    - Tenses and verb forms
    - Direct and indirect speech

6. Artificial Intelligence and New Technological Innovations

- Introduction to Artificial Intelligence (AI)
- Recent advancements in technology
- Basics of computer systems

This syllabus is designed to cover the major areas of study for 8th class students, based on their textbooks. The examination will assess the students' understanding and application of concepts in Mathematics, Social Science, Science, General Knowledge, and Language Comprehension.