Andhra Pradesh PSC Junior Lecturer Exam Pattern 2018:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Exam Type</th>
<th>Paper</th>
<th>Names of the Subjects</th>
<th>No of Questions</th>
<th>Total Marks</th>
<th>Duration of the Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Objective Type</td>
<td>Paper – I</td>
<td>General Studies &amp; Mental Ability</td>
<td>150</td>
<td>150</td>
<td>150 Min</td>
</tr>
<tr>
<td>2.</td>
<td>Paper – II</td>
<td>Concerned Subjects</td>
<td>150</td>
<td>300</td>
<td></td>
<td>150 Min</td>
</tr>
</tbody>
</table>

Interview 50 Marks

Total 500 Marks

Andhra Pradesh Junior College Lecturer Subject Wise Syllabus 2018:

General Studies & Mental Ability:

- Remote Sensing and GIS in the Assessment of Disaster.
- Contemporary Developments in Science and Technology and Information Technology.
- Geography of India with a focus on Andhra Pradesh.
- Indian Polity and Governance.
- Economic Development in India since Independence.
- General Science and its Applications.
- Current Events – National & International.
- Sustainable Development and Environmental Protection.
- Social-economic and Political History of Modern India.
- Indian National Movement.
- Disaster Management: Vulnerability Profile, Prevention, and Mitigation Strategies.
- Data Analysis:
  - Visual Representation of Data.
  - Interpretation.
  - Tabulation of Data.
  - Basic Data Analysis.
- Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Political, Cultural, and Legal Implications/ problems such as,
  - Impact of Bifurcation on River Water Sharing and Consequential Issues.
  - Implications for Financial Resources of State Government.
  - Division of Employees, their relocation and nativity issues.

English:

- English Language Test.
- Writers and Texts.
• Movements and Concepts.

Mathematics

• Partial Differential Equations.
• Ordinary Differential Equations.
• Matrix Theory.
• Metric Spaces.
• Group Theory.
• Vector Spaces.
• Complex Analysis.
• Ring Theory.
• Elementary Number.
• Real Analysis.

Urdu

• Origin & Development of Urdu Language.
• Deccaniyat.
• Literary Criticism.
• Urdu Journalism, Teranslation, & Mass, Media, Print and Electronic.
• Development of Different Forms of Literature.
• Different Literary Movements.

Commerce

• Financial Management.
• Managerial Economics.
• Financial and Management Accounting.
• Human Resources Management.
• IT and e-Commerce.
• Quantitative Techniques.

Physics

• Classical Mechanics.
• Mathematical Methods of Physics.
• Electromagnetic Theory.
• Electronics.
• Condensed Matter Physics.
• Thermodynamics and Statistical Physics.
• Atomic & Molecular Physics.
• Nuclear and Particle Physics.
• Quantum Mechanics.

Chemistry

• Organic Chemistry.
• Inorganic Chemistry.
Botany

- Plant Resource Utilization and Conservation.
- Cell and Molecular Biology of Plants
- Cytology, Genetics, and Cytogenetics.
- Biology and Diversity of Lower Plants.
- Taxonomy and Diversity of Seed Plants.
- Plant Development and Reproduction.
- Biotechnology and Genetic Engineering of Plants and Microbes.
- Plant Ecology.
- Plant Physiology and Metabolism.

Zoology

- Ecology.
- General Concepts.
- Chordata.
- Genetics.
- Developmental Biology.
- Cell Biology.
- System and Cell Physiology.
- Histology.
- Immunology.

Statistics

- Design of Experiments.
- Distribution Theory.
- Probability Theory.
- Statistical Inference.

Biotechnology

- Biomolecules and Analytical Techniques.
- Immunology.
- Enzyme Technology.
- Genetic Engineering.
- Plant Biotechnology.
- Cell Biology.
- Microbiology.
- Bioprocess Engineering.
- Environmental Biotechnology.
- Bioinformatics.
- Animal Biotechnology.

Microbiology

- Industrial Microbiology.
- General Microbiology and Microbial Physiology.
- Immunology.
• Bioinformatics.
• Medical Microbiology.

**Computer Applications**

• E-Commerce and Security.
• Artificial Intelligence.
• Mathematical Foundations.
• Web Technologies.
• Management Information Systems.

**Computer Science**

• Programming.
• Design and Analysis of Algorithms.
• Theory of Computation and Compiler Design.
• Operating Systems and Unix.
• Computer Networks.
• Mathematical Foundations.
• Data and File Structures.
• Principles of Programming Languages.
• Digital Logic Design and Computer Organization.
• Relational Database Design and SQL.
• Software Engineering.
• Distributed Operating Systems.
• Data Warehousing and Mining.
• Web Technologies.

**Geology**

• Structural geology and Geotectonics.
• Stratigraphy.
• Crystallography and Mineralogy.
• Sedimentology.
• Environmental Geology.
• Ore Genesis.
• Fuels.
• Hydrogeology.
• Paleontology.
• Igneous and Metamorphic Petrology.
• Geochemistry.
• Indian Mineral Deposits and Mineral Economics.
• Mineral Exploration.
• Engineering Geology.
• Geomorphology and Remote Sensing.