Andhra Pradesh Public Service Commission Syllabus

APPSC Asst Motor Vehicle Inspector Syllabus - General Studies

- Current affairs- international, national and regional.
- Disaster management: vulnerability profile, prevention and mitigation strategies,
 Application of Remote Sensing and GIS in the assessment of Disaster.
- A social- economic and political history of modern India with emphasis on Andhra Pradesh.
- Economic development in India since independence with emphasis on Andhra Pradesh.
- Bifurcation of Andhra Pradesh and its Administrative, Cultural, Political, Economic, Social, and Legal Implications/problems
- Indian polity and governance: constitutional issues, public policy, reforms and e-governance initiatives with specific reference to Andhra Pradesh.
- Events of national and international importance.
- Sustainable Development and Environmental Protection
- The physical geography of Indian sub-continent and Andhra Pradesh.
- General Science and Information Technology

Andhra Pradesh Public Service Commission Mental Ability Syllabus

Verbal Reasoning

- Analogy
- Series Completion
- Verification of truth of the Statement
- Situation Reaction Test
- Direction Sense Test
- Classification
- Data Sufficiency
- Alpha- Numeric Sequence Puzzle
- Puzzle Test
- Blood Relations
- Coding- Decoding
- Assertion and Reasoning
- Arithmetical Reasoning
- Operations of Mathematics
- Venn Diagrams
- Word Sequence
- Missing Characters
- Sequential Output training
- Directions
- Test on Alphabets
- Eligibility Test

Andhra Pradesh Public Service Commission Syllabus

Non-Verbal Reasoning

- Dot Situation
- Identical figure groupings
- Forming figures and analysis
- Construction of squares and Triangles
- Series
- Analogy
- Analytical Reasoning
- Paper Folding
- Paper Cutting
- Cubes and Dice
- Water Images
- Mirror Images
- Figure Matrix
- Completion Incomplete Pattern
- Spotting embedded figures
- Classification

psc.ap.gov.in Assistant Motor Vehicle Inspectors Automobile Engineering Syllabus

- 1. Basic thermodynamics Systems-Closed/Open systems, Property, cycle, Thermodynamic equilibrium- Zeroth law, First law, Second Law of thermodynamics- Pure substance-Mollier Diagram-Vapor Power cycles-Rankine cycle-
- 2. Air standard cycles-Otto, Diesel, Dual combustion cycle, derivation of expressions for mean effective pressure-diagram factor, efficiency, Sterling engine
- 3. gears-nomenclature-simple, compound, epicyclic trains-calculations of torque.
- 4. Shafts- solid, hollow shafts; shear stress and angular deflection due to torque applied; bending moments combined moment and torque.
- 5. Friction inclined plane; screw and nut; screw jock; self-locking.
- 6. Fuels fire and flash point calorific value calorimeters- octane, certane numbers and its importance stoichiometric ratio.
- 7. Single cylinder, multi-cylinder engine pre whirl chambers- combustion/ignition delay knocking, detonation.
- 8. Firing order; piston and piston rings; temperature profile of piston.

Andhra Pradesh Public Service Commission Syllabus

- 9. Fuel system Carburetion, carburetors, Gasoline/petrol injection systems diesel fuel injection systems, types-common rail injection system, Fuel tank.
- 10. Balancing of single cylinder engines.
- 11. Lubrication and cooling systems in the automobile.
- 12. Transmission gearbox clash type, synchromesh, automatic transmission systems.
- 13. propeller-shaft universal coupling differential half shafts floating,
- 14. clutches single, multi-plate bearing pressure-pressure plate axial load fluid clutch.
- 15. Brakes and brake mechanisms-mechanical, hydraulic and air brakes,
- 16. Steering condition for correct steering —Ackermann steering.
- 17. Electrical system Delco system, circuit wiring, working of electrical equipment.
- 18. Exhaust gas analysis —Pollutants –Sources Formation Effects Of Pollution On Environment Human Transient Operational Effects On Pollution Regulated Unregulated Emissions Emission Standards. EMISSIONS IN SI ENGINE: Chemistry Of SI Engine Combustion HC and CO Formation In SI Engines NO Formation In SI Engines Smoke Emissions From SI Engines Effect Of Operating Variables On Emission Formation. EMISSIONS IN CI ENGINE: Basics Of Diesel Combustion Smoke Emission And Its Types In Diesel Engines NOx Emission And Its Types From Diesel Engines Particulate Emission In Diesel Engines. Odor, Sulfur And Aldehyde Emissions From Diesel Engines Effect Of Operating Variables On Emission Formation.
- 19. Air conditioning of automobiles
- 20. Automobile wheel alignment chamber. castor —Kingpin inclination —toe-in, toe-out.
- 21. Maintenance of tires traffic Rules.
- 22. Materials- structure of the metals -imperfections-ferrous and nonferrous materials-heat treatment of steels.
- 23. Instrumentation- transducers- Motion, level, force, and temperature transducers-Closed loop control and open-loop control systems