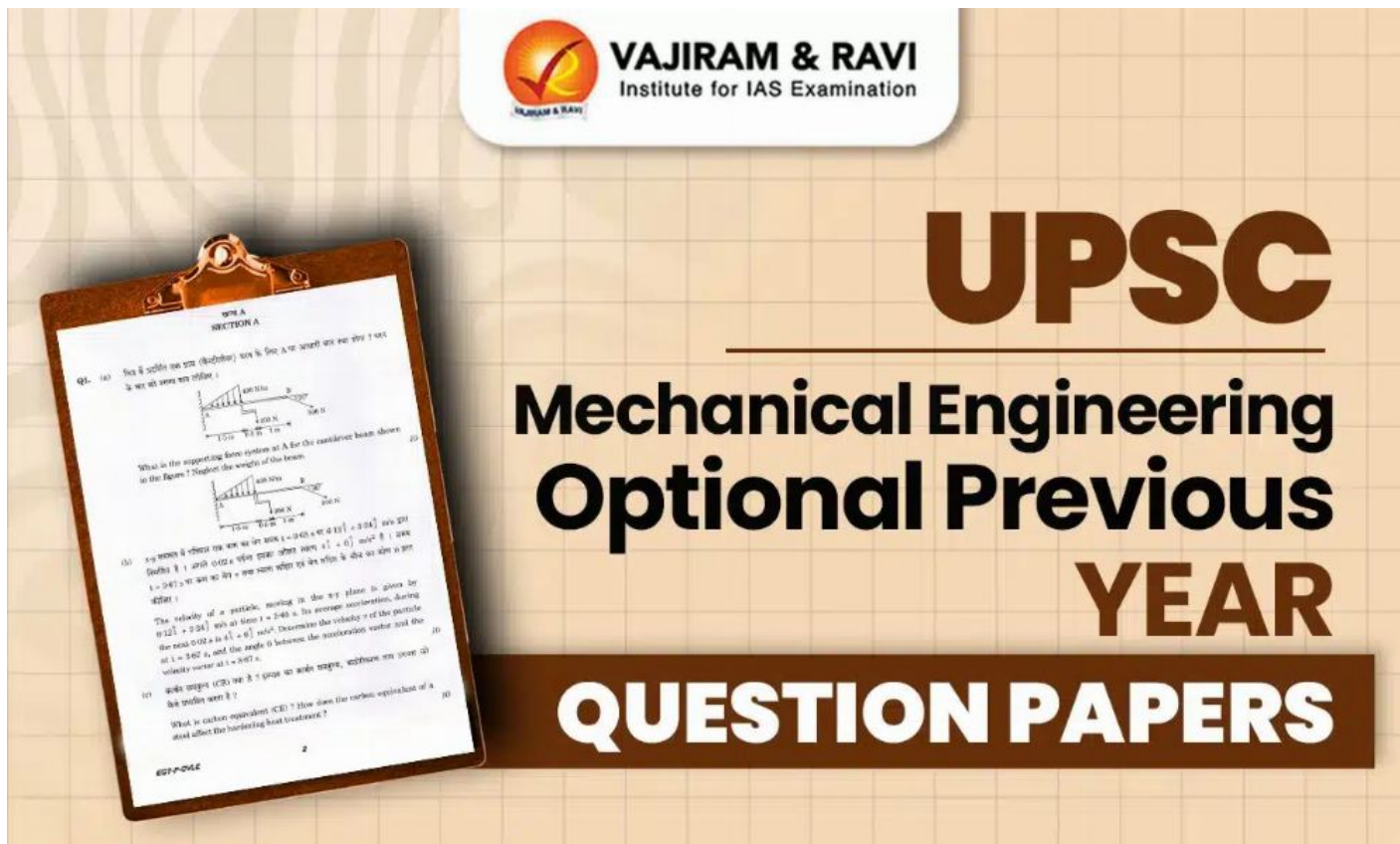


UPSC Mechanical Engineering Optional Previous Year Question Papers

June 21, 2026 • vajiramandravi.com

The image shows a promotional graphic for UPSC Mechanical Engineering Optional Previous Year Question Papers. On the left, there is a clipboard with a question paper from 2015, labeled 'SECTION A'. The paper contains two questions: Question 1(a) about a cantilever beam with a triangular load, and Question 1(b) about a particle moving in a circular path. On the right, the text 'UPSC Mechanical Engineering Optional Previous YEAR QUESTION PAPERS' is displayed in large, bold, brown and white letters. Above this text, the 'VAJIRAM & RAVI Institute for IAS Examination' logo is visible, featuring a stylized orange and red 'V' and 'R'.

The UPSC Mechanical Engineering Optional Previous Year Question Papers are one of the most reliable resources for aspirants preparing for the UPSC Exam 2025 with Mechanical Engineering as their optional subject. This optional is often chosen by candidates with a background in engineering, especially those who want to utilize their technical knowledge in UPSC Mains Exam 2025. Practicing these papers helps aspirants understand the level of questions, improve accuracy, and enhance answer presentation.

Mechanical Engineering as an Optional Subject

Mechanical Engineering as an Optional Subject is best suited for candidates who hold an engineering degree or have a strong foundation in mechanical concepts. The syllabus is vast and covers areas like thermodynamics, fluid mechanics, robotics, design, and production engineering.

The advantage of this optional is its objectivity and scoring potential since many questions are problem-based and have definitive answers. However, it requires preparation and consistent practice, especially for numerical problem-solving. For aspirants with the right background, it can become a high-scoring optional and significantly improve

their overall rank in the UPSC CSE Exam 2025.

UPSC Mechanical Engineering Optional Exam Pattern

The UPSC Mechanical Engineering Optional Exam 2025 will be held on 31st August 2025 in two papers (Paper I and Paper II), each carrying 250 marks, for a total of 500 marks.

- **Paper I:** Thermodynamics, fluid mechanics, heat transfer, and related mechanical systems.
- **Paper II:** Manufacturing, industrial engineering, machine design, and applied mechanics.

Practicing the UPSC Mechanical Engineering Optional Previous Year Question Papers helps candidates understand the mix of problem-solving and conceptual clarity required in both papers.

UPSC Mechanical Engineering Optional Previous Year Question Papers

Aspirants can download the UPSC Mechanical Engineering Optional Previous Year Question Papers directly from the official UPSC website or from the direct link shared in the table below. Keeping year-wise PDFs helps in organized study and easy revision before the exam.

UPSC Mechanical Engineering Optional Previous Year Question Papers		
Year	Paper I	Paper II
2025	UPSC Optional Mechanical Engineering Paper – I	UPSC Optional Mechanical Engineering Paper – II
2024	UPSC Optional Mechanical Engineering Paper – I	UPSC Optional Mechanical Engineering Paper – II
2023	UPSC Optional Mechanical Engineering Paper – I	UPSC Optional Mechanical Engineering Paper – II
2022	UPSC Optional Mechanical Engineering Paper – I	UPSC Optional Mechanical Engineering Paper – II
2021	UPSC Optional Mechanical Engineering Paper – I	UPSC Optional Mechanical Engineering Paper – II
2020	UPSC Optional Mechanical Engineering Paper – I	UPSC Optional Mechanical Engineering Paper – II

2019	UPSC Optional Mechanical Engineering Paper – I	UPSC Optional Mechanical Engineering Paper – II
2018	UPSC Optional Mechanical Engineering Paper – I	UPSC Optional Mechanical Engineering Paper – II

UPSC Mechanical Engineering Optional Syllabus

The UPSC Mechanical Engineering Optional Syllabus is structured to evaluate a candidate's understanding of core engineering principles, analytical ability, and application skills. It draws from multiple branches of mechanical engineering, ensuring both theoretical understanding and practical insight are tested. The paper is divided into two parts, each focusing on different areas of the discipline.

UPSC Mechanical Engineering Optional Syllabus	
Paper	Major Topics Covered
Paper I	- Mechanics and Dynamics - Strength of Materials and Design - Thermodynamics and Heat Transfer - Fluid Mechanics - Engineering Materials - Manufacturing Science
Paper II	- Theory of Machines and Machine Design - Engineering Mechanics - Mechatronics and Robotics - Power Plant Engineering - Renewable Sources of Energy - Industrial Engineering and Operations Research

Other Related Posts of UPSC 2026	
UPSC Syllabus	UPSC Exam Pattern
UPSC Age Limit	IAS Salary
UPSC Exam Date 2026	UPSC Calendar
UPSC Prelims 2027	UPSC Mains 2026
UPSC Mains Syllabus	UPSC Interview
UPSC Prelims Result	UPSC Mains Result
UPSC Final Result	UPSC Cut Off
UPSC CSAT Syllabus	UPSC Books
UPSC Admit Card	UPSC Previous Year Papers
UPSC Answer Key	IAS vs IPS