

# Mechanical engineering syllabus

## Mechanical engineering examinations

### Group A - Compulsory examinations (six required, A1-A5 and one of A6 & a7)

#### 16-Mec-A1 Applied Thermodynamics and Heat Transfer

**Thermodynamics:** Review of the fundamental laws of thermodynamics, introductory psychrometry and analysis of the ideal gas compressor cycle, Rankine cycle, Otto cycle, Diesel cycle, Brayton cycle and the vapour compression refrigeration cycle.

**Heat Transfer:** Application of the principles of steady and transient conduction heat transfer, natural and forced convection heat transfer and radiation heat transfer. Thermal analysis of heat exchangers.

*Textbooks (most recent edition is recommended):*

- Moran, M.J., H.N. Shapiro, B.R. Munson and D.P. DeWitt, Introduction to Thermal Systems Engineering: Thermodynamics, Fluid Mechanics, and Heat Transfer. John Wiley and Sons.

#### 16-Mec-A2 Kinematics and Dynamics of Machines

**Kinematic and Dynamic Analysis:** Graphical and analytical methods for kinematic analysis of planar and spatial mechanisms and elementary body motion in space, static and dynamic force analyses of mechanisms, gyroscopic forces, dynamics of rotating machinery, cam and gear mechanisms and specifications.

**Vibration Analysis:** Free and forced vibration of undamped and damped lumped single and multi degrees of freedom systems with, analytical and numerical techniques of solution, viscous damping, vibrational isolation, vibration measurement and control.

*Textbooks (most recent edition is recommended):*

- Inman, D.J., Engineering Vibrations, latest edition, Prentice-Hall.
- Waldron, K.J., and Kinzel, G.L., Kinematics, Dynamics and Design of Machinery. John Wiley & Sons.

#### 16-Mec-A3 System Analysis and Control

**Open-loop and feedback control.** Laws governing mechanical, electrical, fluid, and thermal control components. Mathematical models of mechanical, hydraulic, pneumatic, electrical and control devices. Block diagrams, transfer functions, response of servomechanisms to typical input signals (step function, impulse, harmonic), frequency response, Bode diagram, stability analysis, and stability criteria.

**Improvement of system response by introduction of simple elements in the control circuit.** Regulation of physical process: proportional, integral, and derivative control. Theory of linear controller design.

*Textbooks (most recent edition is recommended):*

- Bissell, C.C., Control Engineering, latest edition, Taylor & Francis.
- Franklin, Feedback Control of Dynamic Systems.

#### 16-Mec-A4 Design and Manufacture of Machine Elements

**Theory and methodology related to conceptual design;** review of the methods used in stress analysis; simple design factor approach; variable loads; stress concentrations; bolts and bolted joints; welded joints; springs; shaft and bearing design; clutches, brakes, and braking systems.

# Net Exam Syllabus For Mechanical Engineering

**SHARMA, D. P.**



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INA AFCAT and any other Graduate and above level exam held by UPSC As it contains detailed notes on Indian History Geography and Indian Polity followed by MCQs that have appeared in various competitive exams it would prove to be very useful for other competitive exams as well Besides notes on each topic it has over 7000 Multiple Choice Questions MCQs on various subjects as per the syllabus This book on General Knowledge English has been written after lot of research and contains MCQs that have appeared in previous 20 years question papers of CDS The detailed notes on History Geography and Indian Polity with MCQs and MCQs on Indian Economy Indian Culture Environment General Science and Defence Para Military will prove to be very useful for all other Competitive Exams conducted by UPSC In addition in the English Chapter besides 20 solved question papers of English Antonyms Synonyms One Word and Idioms phrases that have appeared in various exams have also been included Mechanical World and Engineering Record ,1952 The Chartered Mechanical Engineer ,1972 **The Bookseller** ,1892 **"The" English Catalogue of Books** ,1890 **The Edinburgh University Calendar** University of Edinburgh,1927 *The English Catalogue of Books* Sampson Low,1898 Volumes for 1898 1968 include a directory of publishers *Publisher and Bookseller* ,1907 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series *The Sanitary Record and Municipal Engineering* ,1913 **The Engineer** ,1914 Practical Engineer ,1920 *Municipal Engineering: Sanitary Record and the Municipal Motor* ,1927 Pyrometers Ezer Griffiths,1926 **Banking & SSC November 2020 eBook** Jagranjosh,2020-11-04 General knowledge has immense importance in various competitive exams like UPSC State Services SSC Banking Railway NDA MBA entrance exams and various service exams in private as well as public sectors This edition contains detailed discussion and analysis of the current GK topics and MCQs with for further practice about the latest and most important happenings in political economic social sports and entertainment fields all over the world All the topics are presented with facts and a brief description so that the reader gets full knowledge and understanding in all the key areas of exams Some maps tables etc are also included for further clarity **British Books** ,1918 **The Sanitary Record and Journal of Municipal Engineering** ,1912 **The Builder** ,1893

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