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Instrumental methods of Analysis Role of Metals in Biology Pollution Prevention and Waste Minimisation
B. Find out the total hardness of water in ppm units, giving temporary and permanent hardness assuming the atomic mass of Fe to be 56, that of Ca to be 40, that of Mg to be 24 and that of Na to be What are the Constituents of petroleum? Describe the Origin of petroleum. Give an account of production of petrol from crude oil. A producer gas has the following composition by volume. Calculate the quantity of air re-quired per m³ of gas. Give one example for each class. Write a note on the conditions leading to failure of a refractory material. Write a note on lubricants with special reference to their classification, mode of action, examples and applications. What are the draw backs of raw rubber? How are its properties improved? How is Buna "S" Rubber prepared? What is alkalinity of water due to and how it is estimated? Calculate the quantities in Kgs of lime and soda required to soften 50, litres of hard water containing the following salts: How it is formed? Discuss the qualities of a good coal. Give the Classification of coal and explain each class with example. With a neat diagram describe the orsat gas analysis method. What are the special precaution to be taken in the measurement? Define calorific values of a fuel. Distinguish gross and net calorific value. Explain Thermal spalling, strength and porosity of the refractories. Explain the following two theories for the mechanism of the lubricants.

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Nature of metal galvanic series, over voltage, purity of metal, nature of oxide film, nature of corrosion product. Nature of environment-effect of temperature, effect of pH, Humidity, effect of oxidant. Corrosion control methods
Cathodic protection, sacrificial anode, impressed current cathode. Surface coatings methods of application on metals- hot dipping, galvanizing, tinning, cladding, electroplating
Organic surface coatings paints constituents and functions. Poly acetylene, polyaniline, conduction, doping, applications. Characteristics and uses Rubber
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4: JNTU B Tech Syllabus for Engineering Chemistry 1st Year

Engineering Chemistry - R. Gopalan, D. Venkatappayya, D.V. Sulochana Nagarajan - Vikas Publishers (). Tags: 1st year Chemistry syllabus in jntu JNTU 1st year syllabus JNTU Chemistry Syllabus JNTU Chemistry syllabus 1st year jntu cse syllabus jntu eee syllabus jntu syllabus JNTU Syllabus of Chemistry www.enganchecubano.com syllabus.

This question should have objective or short answer type questions. It should be of 25 marks. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be of Specifications for water, analysis of water " alkalinity, hardness and its determination EDTA method only. Water for domestic use, Water softening processes " Lime " Soda process, Ion exchange method, boiler feed water, boiler problems-scale, sludge, priming and foaming, caustic embitterment and corrosion, their causes and prevention, removal of silica, removal of dissolved gases, carbonate and phosphate conditioning, colloidal conditioning, calgon treatment, Numerical problems on alkalinity, hardness, Lime-Soda process and Ion exchange method, EDTA method. Classification, combustion and chemical principles involved in it, calorific value: Proximate and ultimate analysis of coal and their importance, High and low temperature carbonisation, Coke: Its manufacture by Otto Hoffman oven. Conversion of coal into liquid fuels Bergius process and Fisher-Tropsch Process and mechanism, Petroleum: Types of pollutants, source effects, sink and control of primary pollutants " CO, Nox, HC, Sox and particulates, effects of pollutants on man and environment " photochemical smog and acid rain. Classification of pollutants, their sources, waste water treatment " domestic and industrial. Composition of soil, classification and effects of soil pollutants and their control. Classification " radioactive, biomedical and chemical, treatment and disposal " physical, chemical and biological processes. Types of corrosion dry, wet, atmospheric and soil corrosion , theories of corrosion, protective measures against corrosion. Applied Chemistry Latest ed. Principles of metal casting: Pattern materials, types and allowance; Study of moulding, sand moulding, tools, moulding materials, classification of moulds, core, elements of gating system, casting defects, description and operation of cupola: Bench Work and Fitting Fitting, sawing, chipping, thread cutting die , tapping; Study of hand tools, Marking and marking tools. Welding principles, classification of welding techniques; Oxyacetylene Gas welding, equipment and field of application, Arc-welding, metal arc, Carbon arc, submerged arc and atomic hydrogen welding, Electric resistance welding: Common processes, tools and equipments; metals used for sheets, standard specification for sheets, spinning, bending, embossing and coining. Manufacturing Process by Raghuvanshi. Manufacturing Technology by P. Workshop Technology by Hazra-Chowdhary 2. Production Engineering by R. Workshop Technology by Chapman Paper Code: Overview of Computer organization and historical perspective computer applications in various fields of science and management. Number systems, character representation codes, Binary, hex, octal codes and their inter conversions. Binary arithmetic, Floating-point arithmetic, signed and unsigned numbers.

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9: JNTU B Tech 1st Sem Syllabus for Mathematics I

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