

Chapter-1: History of Engineering Practices [4 marks]. to 8

- Society - Defⁿ - Elements.
- Characteristics
- Origin

V Imp - Importance to a man (w Imp)

- Community - Defⁿ
- Element

• Community v/s Society

• Theories of Social Change

• Role of Engineers in Development Activities

• Technology & Social Change

• Impacts of Computer on Society

V Imp • Importance of Society for Engineers

V Imp • Role of Engineer in a Society

• Computer Crimes.

Chapter 2: Profession & Ethics - [8 marks]

- Profession - Definition, Characteristics.

V Imp • Engineering profession, Defⁿ + features

• Features of profession

• Factors affecting morale of profession.

• Professional Institutions

- Defⁿ

- Objectives

- Role of Engineer with (Client, Contractor & Fellow Engs.) (Public)

V Imp - Ethics, moral

- Core Ethical values.

- Code of Ethics, Reason for unethical

- Ethics v/s Morals

- Engineering code of ethics

- Moral Dilemma

- Date / /
Page No.
- Detailed duties of an engineer.
 - Ethical decision making
 - Framework for Ethical decision making
 - ✓ Imp Negligence, tort, liability

Chapter 3: Professional Practices in Nepal. [4 marks]

- Public Sector in Nepal
- Private Sector in Nepal
- General Job of Engineers.
- Job descriptions for Fresh Graduates

Chapter 4: Contract Management [8 marks]

- Procurement
- Procurement process
- Duties of PPMO.
- Methods of acquiring goods
- ✓ Imp - ◦ Tender - Defⁿ
(Bid) - Purpose
- Process

Imp ◦ Tender notice

- Contents of tender notice
- Bidding Document
- Earnest money
- Performance Security

✓ Imp ◦ Contract.

- Defⁿ
- Methods of Contracting.
- Elements of a Contract
- Importance
- Types of Contract: Valid, voidable, void

Chapter 5: Regulatory Environment [6 marks]

Imp • Nepal Engineering Council Act.

- Defⁿ
- Objective
- Scope

• Engineering Licensing Process

• NEA v/s NEC

• Labour law

Imp • Intellectual Property right

- Copyright
- Trademark
- Design Right
- Patent

• Building codes and bylaws

• Business law

• Company Registration

- Company

- Characteristics of Company

- Types of Business Enterprise

• Company Registration Process

Chapter 6: Contemporary Issue in Engineering [4 marks]

• Globalization - Defⁿ, Benefits, Effects

• Cross Culture

• PPP, Defⁿ, Importance

• Safety

• Risk

• Benefit Analysis

• Development and Environment

• Conflict & Dispute management