

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2072 Ashwin

Exam.	Regular		
Level	BE	Full Marks	40
Programme	All (Except B. Arch)	Pass Marks	16
Year / Part	IV / II	Time	1 ½ hrs

Subject: - Engineering Professional Practice (CE752)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any **Four** questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

1. What is social change? What are the factors causing social change? Describe the role of technology in social change. [8] 6
2. What is profession? Describe the code of ethics for engineers. Explain tort and liability. [8] 6
3. What is contract? Explain tendering process and contract agreement. Describe essential elements of contract. [8] 6
4. "Engineering profession always emphasizes on safety first in engineering delivery" Describe with typical examples. [8] 4
5. Write short notes on: (any four) [4×2] 8
 - a) Impact of computers in society
 - b) Labour and business law
 - c) Professional institutions
 - d) Conflict and dispute management
 - e) Building codes and by laws

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2071-Bhadra

Exam.	Regular / Back		
Level	BE	Full Marks	40
Programme	All (Except B.Arch.)	Pass Marks	16
Year / Part	IV / II	Time	1½ hrs.

Subject: - Engineering Professional Practice (CE752)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. a) ✓ Discuss on the impact of technology into the society. [4]
b) Discuss about the engineering practice in Nepal. [4]
2. a) ✓ How does a moral dilemma occur? What are the bases to solve moral dilemma? [4]
b) ✓ What are the codes of ethics for engineers according to Nepal Engineering Council? [4]
3. ✓ Sub-contractor Mr. A was severely beaten by his labors because he had not paid them for more than seven months. During investigation it was revealed that client did not pay to the contractor and contractor did not pay to the subcontractor. The client didn't pay because consultant did not submit the necessary bill report. The consultant says the work is defective and quality of the work is not as per specifications. While the contractor does not agree because it was not informed on site and blames that the consultant wants covert money. Discuss the case considering contract law, tort, liability and negligence whatsoever applicable. [8]
4. a) Describe briefly the elements of contract? [4]
b) ✓ Define Tender, what are the essential informations to be given in the Tender Notice? [4]
5. a) ✓ Differentiate Patent right and Trademark right. Write down the characteristics of company business organization. What are the sources of business law in Nepal? [4]
b) ✓ How the PPP model help in any development activities? What is its significance in a developing country like Nepal? [4]

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2071 Magh

10/12 D

Exam.	New Back (2066 & Later Batch)		
Level	BE	Full Marks	40
Programme	All (Except B. Arch.)	Pass Marks	16
Year / Part	IV / II	Time	1½ hrs.

Subject: - Engineering Professional Practice (CE752)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. a) Define society. What are the fundamental social needs to be addressed for the survival of every type of societies? [4]
 b) Define moral dilemma. What are fundamental laws of ethics to overcome moral dilemma? [4]
2. a) Define Profession. Illustrate the characteristics of a Profession. [4]
 b) What are the detail duties and responsibilities of Nepal Engineering Council (NEC)? How do you differentiate professional ethics with moral behavior? [4]
3. You are working as an Engineer from a Consulting Engineering Firm. Your contractor friend Er. Hari is working as a Project Engineer from contractor office in the same project. Mr. Hari invites you for dinner every Friday to celebrate "good Friday" and request you to share the guest house for your accommodation. What would you do in maintaining the code of ethics and friendship relation? [8]
4. a) Define contract document. What are the priorities of contract documents? Explain the rules of contract interpretation. [4]
 b) Why should you be aware of Labour Law? What will you do if a construction worker dies by falling from height in your site? [4]
5. Write short notes on: (any two) [4+4]
 - a) Copyrights, Patent and Trademarks
 - b) Public Private Partnership
 - c) Liability and Negligence

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division

2069 Bhadra

Exam.	Regular / Back		
Level	BE	Full Marks	40
Programme	BCE, BEL, BEX, BCT, BME	Pass Marks	16
Year / Part	IV / II	Time	1½ hrs.

Subject: - Engineering Professional Practice (EG766CE)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any **Four** questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

1. a) What are the differences between community and society? Briefly describe the theories of social change. [2+3]
- b) What are the impacts of technology and its changes on society in this 21st century? [5]
2. a) How do you describe engineering profession? Explain the significant features of profession. [2+3]
- b) What are Factors affecting the morale of a professional engineer? Describe in brief to justify and satisfy yourself in the context of Nepal, to have and maintain the professional and moral ethics. [2+3]
3. a) Recently Nepal Engineer's Association (NEA) celebrated its golden jubilee years 2069. In this regard, are you satisfied with role played by NEA in enhancing and upgrading engineering profession and welfare of the engineering till date or not? Justify your thoughts. [5]
- b) Elaborate the differences between void and voidable contract. Explain briefly about general conditions of contract and its essential contents. [2+3]
4. a) Explain tort. What are the reasons behind introducing tort law in the society? How do you distinguish copyright with patent right? [1+1+3]
- b) Differentiate between public limited company and private limited company. [5]
5. Write short notes on: [2.5×4]
 - a) Impact of engineering profession
 - b) Nepal Engineering Council
 - c) Benefits of prequalification
 - d) Trade mark

OR

Recently Samsung Korea was asked to pay compensation of billions of dollar to Apple Inc. by an American court. What do you know about this case? Are you satisfied with the verdict? Express your opinion clearly. [10]

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division

2068 Bhadra

Exam.	Regular / Back		
Level	BE	Full Marks	40
Programme	BCE, BEL, BEX, BCT, BME	Pass Marks	16
Year / Part	IV / II	Time	1 1/2 hrs.

Subject: - Engineering Professional Practice

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any **Four** questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

1. a) Write five most important rules of conduct for a professional engineer considering code of ethics prevalent in Nepal. [4]
- b) In a telecommunication project, you are the engineer from client's side. The contractor requests you for preparing his final bill of works done, assuring you to pay a handsome amount for your effort, as his engineer recently quit the job. How should you respond? Explain your arguments. [6]
2. a) After being an engineer, what type of business concern should you establish if your team comprising of five engineers wish to be a design/supervision consultant in Nepal and why? Write disadvantages of public limited company. [5]
- b) Number of severe cracks appeared in a building designed by an engineer and also approved by the Municipality within one year of its construction. The house owner approached you for your suggestion about the course of action he should take to get remedy. Explain your suggestion in view of liability and negligence. [5]
3. a) Assume yourself as a recently appointed engineer-in-charge of a newly established brick factory. How do you regulate working hours and overtime hours? What facilities should you provide to the laborers considering the requirements of prevailing labor law on Nepal? [5]
- b) What is negligence? Explain vicarious liability. [5]
4. What is copyright and patent right? Discuss their importance. Explain major features of copyright Act in Nepal. [2+4+4]
5. Write short notes on any two. [2x5]
 - a) Theories of social change
 - b) Role of engineers in social development
 - c) Nepal Engineering Council
 - d) IT specific crimes in the society

Examination Control Division

2067 Mangsir

Exam.	Regular / Back		
Level	BE	Full Marks	40
Programme	BCF, BEI, BEX, BCI, BME	Pass Marks	16
Year / Part	IV / II	Time	1½ hrs.

Subject: - Engineering Professional Practice

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any Four questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. a) Define society. Describe how engineers can contribute in the development of the rural society. [1+1]
b) Differentiate between copy right and patent right. [5]
2. a) Define profession. Describe the characteristics of profession. [1+4]
b) How do you judge the ethical standard of engineers in Nepal? Describe the role of Nepal Engineering Council in maintaining ethical standard of Nepalese Engineers. [2+3]
3. a) Define contract. Describe any four importance elements of contract. [1+4]
b) Explain the detailed duties and liabilities of Designers/Professionals. [2+3]
4. During quality control visit in a remote village, it has been found that a building is being constructed on the bank of a river, and it will be damaged due to flood. Approximately 20% of the construction was completed. The survey was done by your friend with the consent of the local people. However, the quality of construction was as per specification. Your job is limited to control the quality of the building only. Discuss the case and recommend your views on whether to continue the construction or not. [10]
5. Write short notes on: (any four) [2.5×4]
 - a) Conflict theory of social change
 - b) Code of conduct
 - c) Objectives of Nepal Engineers Association
 - d) Welfare provisions in labor law
 - e) Characteristics of Private Ltd. Company
 - f) Trademark

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division

2066 Magh

Exams		Regular/Back	
Level	BE	Full Marks	40
Programme	BEL, BEL, BEX, BCT, BTE	Pass Marks	16
Year / Part	IV / II	Time	1½ hrs.

Subject - Engineering Professional Practice

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any Four questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. Er. Narendra Sah was working with the contractor in a construction project (say construction of housing complex in Kathmandu). He was given the responsibilities to control quality of work in the site. Incidentally, material supplier (Ramchandra) in the construction is a friend of Narendra. Owing to the road blockade and other strikes, Ramchandra was facing difficulty in supplying sand and aggregates as per the given specification. Sand and aggregates materials was available in the close proximity of the site, but it is slightly sub-standard. Ramchandra requested Narendra to allow this material to be used for construction. Ramchandra convinced Narendra that the strength of concrete shall be produced as per specification even with the use of sub standard materials. Ramchandra also offered to share 50% of the cost saved during this process. How do you judge the conduct of Narendra and Ramchandra on an ethical ground? [6+4]
2. a) What do you understand by society, social structure and community? Write down the elements of community. [3+2]
- b) How would you relate technology with social change? Describe briefly the factors causing social change. [2+3]
3. a) Define profession and professionalism. Describe briefly the features of profession. What are the factors affecting morale of profession? Describe briefly the fundamental ethical values for code of ethics. [1+1+1+2]
- b) What do you mean by professional association? Describe briefly the principal objectives of a professional body. State the provision of Engineering Professional Practice in Nepal. [1+2+2]
4. a) Describe intellectual property right? Elaborate what do you understand by the terms patent, design and trade mark. [2+3]
- b) Explain the different provision in the Nepalese legal system related to the practice of Engineering Profession in Nepal. [5]
5. Write short notes on: (any two) [2×5]
 - a) Valid, void and voidable contract
 - b) Occupational health and safety provisions in labor law 2048 BS
 - c) Negligence, liability and tort
 - d) Computer crimes and computer virus

05 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2065 Baishakh

Exam.	Back		
Level	BE	Full Marks	40
Programme	All	Pass Marks	16
Year / Part	IV / II	Time	1½ hrs.

Subject: - Engineering Professional Practice

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any **Four** questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

1. a) Define social change and its theories. Discuss on the various roles to be played by the Engineers in the transformation of Nepalese society towards 'New Nepal'. [1+4]
b) What do you mean by intellectual property right? Differentiate between 'Copyright' and 'Patent right'. [2+3]
2. a) What is profession? Do you agree with the statement 'Engineers are professional'? Give reasons. [1+4]
b) Define ethics. Describe 'Utilitarianism' theory and 'Distributive Justice' theory in making right decision. [1+4]
3. a) What do you mean by professional association? How do you evaluate the role of Nepal Engineers' Association as a professional association of Nepalese Engineers? Discuss. [2+3]
b) Define and discuss on various conditions regarding 'Offer and Acceptance' which is an essential element of contract. Name other essential aspects of contract. [3+2]
4. a) List the information which should customarily appear in an advertisement for tenders. [5]
b) Define 'Employees' and 'Workers' as per labor act in Nepal. Discuss "health and safety" of labors covered by Labor Act. [1+4]
5. You are appointed as a consulting engineer in a project where your best friend is supplying material. The community people knew the fact and asked you to quit the job because you cannot control the quality of the material. How do you cope with this situation? Discuss ethical aspects related to this situation. [10]

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division

2064 Poush

Exam.	Regular/Back	
Level	BE	Full Marks 40
Programme	BCE, BEL, BEX, BCT, BME	Pass Marks 16
Year / Part	IV / II	Time 1½ hrs.

Subject - Engineering Professional Practice

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any **Four** questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

1. a) What do you understand by society and community? Illustrate the characteristics of society. Write briefly the theories of origin of society. [5]
- b) What do you understand by Technology and Social change? Write down the factors governing social change? [5]
2. a) Define Contract. Discuss essential elements of contract? [5]
- b) Define Tender, tender notice earnest money and performance bond. Write down the contents of tender notice. [5]
3. a) What do you mean by Professional association? Discuss briefly on the principal objectives of professional body. Introduce Nepal Engineers' Association and Nepal Engineering Council. [5]
- b) What do you mean by moral and ethics? Write down the code of conduct to be followed by Engineers. [5]
4. A trial-bridge (suspension bridge) over the Bheri River at Shubhaghat near Mehalakuna bazaar of Surkhet district collapsed on 25th December, 2007. The collapse of the bridge claimed some 18 people's life and it is speculated that about 70 persons are missing in the Bheri river. The mishap happened while a large crowd of people (some eye witnesses claims 500 to 600 persons) were crossing the bridge to participate in a local fair on the other side of the bank. The bridge is located at about 10km northeast from the Chhinchu bazaar. The span of the bridge was 187 meters and was completed construction in the fiscal year 2063/064 (July 2006 / June 07). This was constructed by DDC-Surkhet, supervised by DTO-Surkhet and the consultant was FACE Consultant Kathmandu. The contractor was the DC Nirman Sewa, Nepalgunj. The fabricator of all the elements of the bridge was Hulas Steel Industries, Simara. Nepal Government has announced to conduct detail investigation of the incident. Initially, it was assumed that the bridge failed due to overload. Prior to the incident, the DTO technician had allegedly instructed the contractor to tighten the nuts of the bulldog grips of the main cables. The Chairperson of the Fair Management Committee has been quoted to say that the contractor has not tightened the nuts as was required. Preliminary investigations by the SDD Engineers seem to indicate that the bridge failed due to faulty building grips. How would you judge the incident on the ground of professional ethics? [10]
5. Write short notes on: [10]
 - a) Health and safety provision of Labor Law 2048 B.S.
 - b) Tort, Negligence, Liability and Vicarious Liability
 - c) Computer Crimes