

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division

2079 Jestha

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

Subject: - Engineering Professional Practice (CE 752)

- ✓ 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. From the History of engineering profession, what lessons the freshly graduated Engineers would learn. What are the sectors that engineers in Nepal can practice their profession? [5+5]
2. Why is ethics and moral necessary in engineering profession? Write and explain the bases of making ethical decision. [4+6]
3. What are the job-description of a freshly graduated engineer in a public sector of Nepal? Write the information required to provide in a tender notice. [5+5]
4. What are intellectual property right and why is it necessary? [5]
5. Why is Dispute Management in any project necessary? Write its reasons and your solutions. [5]

2.005
2.879
11.597
12.838
14.860
15.750
18.548
20.278
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23.589
25.188
26.757
28.300
29.819
31.319
32.801
34.267
35.718
37.156
38.582
39.997
41.401
42.796
44.181
45.559
46.928
48.290
49.645
50.993
52.336
53.672
66.766
79.490
91.952
104.215
116.322
128.298
140.168

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2079 Shrawan

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

Subject: - Engineering Professional Practice (CE 752)

- ✓ 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. Explain briefly about the types of society in the sociological point of view. [4]
- b) Write down the job description of an engineer appointed to a private sector. [4]
2. a) Differentiate tort liabilities and vicarious liabilities. What are the conditions necessary to prove professional negligence in engineering practice? [4]
- b) Mr. Ronaldo, an engineering graduate, carried out survey for telephone line requirement for a newly growth city near Lalitpur district. He estimated 1000 lines for five year period. But in 3 years period, the demand for telephone line year dramatically increased and application for telephone line was reached 2000. Discuss this case with reference to reasonable skill and competency of a professional. [4]
3. a) Define tender. Why is tendering so important? List the essential information to be furnished while a tender notice is published. [4]
- b) Explain briefly procurement types (Sealed bidding, sealed quotation and direct purchase) of work as per public procurement Act 2063. [4]
4. a) "You should not practice Engineering without acquiring a license". Justify this statement. [4]
- b) Please describe about the globalization and public private partnership (PPP) with suitable examples. [4]
5. Write short notes on: (Any Two) [2×4]
 - a) Labor law
 - b) Technology and society
 - c) Safety, Risk and Benefit analysis

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2078 Chaitra

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

Subject: - Engineering Professional Practice (CE 752)

- ✓ 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) Explain why society is important for engineers? What are the key roles that an engineers plays in the society? [4]
- [4] b) Write down the job description of a fresh engineering graduate appointed to a public organization. [4]
2. a) What do you understand by the term Ethics? Why is it necessary for a professional to follow code of conducts? [4]
- [4] b) You are working as an engineer from a consulting firm in Gorkha. Your friend Mr. John is working as a project engineer from contractor in the same project. Mr. John invites you for dinner every Saturday to celebrate a weekend and request you to share the guest house for your accommodation. What would you do? Prepare a case study based on code of ethics. Make supplementary assumptions if necessary. [4]
3. a) Define contract. What are the essential elements of contract? In which condition contract will be void? [4]
- [4] b) Describe about the tender and explain the purpose tender. List the essential information to be enclosed in the tender notice while publishing for public purpose. [4]
4. a) What are the general principle of leave and holidays? Explain the steps of disciplinary action for misconduct, as per the Labor Act-2074 of Nepal. [4]
- [4] b) How the PPP models help in any development activities? Write down the merits and demerits of globalization for developing countries like Nepal. [4]
- [2x4] 5. Write short notes on: (Any Two) [2x4]
 - a) Conflict and Dispute management
 - b) Liability and Negligence
 - c) Intellectual property right

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2078 Kartik

Exam.	Back		
Level	BE	Full Marks	40
Programme	All except BAR and BIE	Pass Marks	16
Year / Part	IV / II	Time	1 ½ hrs.

Subject: - Engineering Professional Practice (CE 752)

- ✓ 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) Explain the conflict theory of social change and its relevance in Nepal. [1+3]
b) In your opinion, what types of technology/ies Nepal should focus on, to develop the rural infrastructure rapidly. Be specific to your area of study/program of your study. [4]
2. a) Define Profession. Explain the features of profession briefly. [4]
b) Recently an engineer was assaulted publicly by some group of people in Terai, Nepal. Explain the role that Professional Associations should play so that such incidences does not repeat again. [4]
3. a) Define Professional ethics. Why do Engineers behave unethically? Explain the role of Nepal Engineering council to control the immoral act of engineers in the Nepal. [1+1+2]
b) Why participatory approach is necessary in development activities? What are their benefits? Explain in the context of Nepal. [4]
4. a) What are the methods of recruitment of consultant? Explain the purpose of Expression of Interest (EOI) and Request for Proposal (RFP). [2+2]
b) Define Intellectual Property Right. Explain the process of registering and company in Nepal briefly. [1+3]

Or

- Define copy right, patent right, design right and Trademarks. Explain briefly the punishment of violating copy right act in Nepal. [2+2]
5. An Engineer designed a RCC Bridge on behalf of consultant. A class contractor constructed the bridge. After the completion of the construction, traffic was allowed. Six month of after operation, cracks developed in the bridge. A probe team was established by road department and you are a member of that team. During investigation it was found that the design procedure was okay, but the quality of steel material used was not duly tested. The contractor argued that the procedure of construction was in accordance with the instruction of engineer and specification, however, the workmanship was found not as per specification. There was also lack of proper supervision by the consultant. The design load for the bridge was 20 tons. It was also reported that there happen to pass more than 20 tons vehicles also. The consultant was good friend of contractor. Being a member of probe team, what is your judgment on the failure of this bridge? Explain. [8]

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2077 Chaitra

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

Subject: - Engineering Professional Practice (CE 752)

- ✓ 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. Define Society and Social Change. How does digital technology help our society in economic development? [2+2]
2. a) Define profession and professional association. Discuss the role of Nepal Engineers' Association (NEA) for engineering professional development in Nepal. [2+2]
b) Define ethics. Explain negligence, tort and liability with examples. [2+2]
3. What are the detail job responsibilities of a gazette third class officer regarding engineering profession? [4]
4. a) What is contract? Describe briefly the elements of contract. [2+2]
b) Define tender and tender notice. Also explain their process. [2+2]
5. Define intellectual property. Explain trademark, service mark, patent and copyright in detail. [8]
6. What is conflict? What are the causes of conflict and methods to mitigate them? [4]
7. Engineer as a political leader pressurize a contractor for low quality construction and bargains with contractor for unwanted payment. Write down for and against it. [4]

02 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2075 Bhadra

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 **All** questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

1. Explain what type of Social change theory is suitable for your society. [4]
2. How do you define a Profession? What are the principles of engineering profession? [8]
3. What may be the job description of a freshly graduated engineer in a public sector? Explain. [5]
4. What is contract document? What are the essential elements of contract? Explain. [1+3+4]
5. What are difference between NEA and NEC? What are the necessities of a company registration in Nepal? [2+3]
6. What do you understand by the public private partnership in Nepal? What are the methods to resolve conflict? [2+3]
7. ABC computer consulting Pvt. Ltd was awarded a contract to install a WAN/LAN connection in XYZ Pvt. Ltd. Ram a computer engineer from ABC, went to install the WAN/LAN in XYZ. In the meantime, he was unsatisfied with his job, so installed WAN/LAN at XYZ negligently. After few weeks, manager of XYZ informed to manager of ABC that the installed system is not functioning properly. In response, Hari another engineer from ABC went back to check the installed system and found that Ram's mistake was there. It will cost NRs. 2 lakhs to maintain the system again. ABC claimed but XYZ refused to pay. Discuss who is to blame on which background. [5]

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2073 Magh

Exam.	New Back (2066 & Later Batch)		
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 All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. a) Why are men and society so important to engineering profession? [4]
b) Write Job Description for a freshly graduated engineer in government sector. [4]
2. a) Write down the fundamental characteristics of profession. List out the core ethical values to develop code of conduct for professionals. Define vicarious liability. [4]
b) Recently the MPCD arrested few engineers of different stream on charge of producing and possessing fake engineering degrees and certifications. It is also not the case that the arrested engineers did not go to any engineering college. They did go to recognized engineering colleges and had attended the classes regularly during their academic course but had failed in few semester exams. Despite their repeated attempts, they were unable to overcome the fail results resulting harsh situation facing barrier for their career further education and professional development. In the meantime, they decided to get fake degrees and certifications to eliminate severe situations. Before arrest, they were working in esteemed company with recognizable performance. How do you judge the behavior/act of arrested engineers on which background? What will be your suggestion to mitigate such situation/incidents never happen again in the society. [4]
3. a) What do you understand by practical engineering profession? List down at least 5 organizations each in public and private sector. [4]
b) What do you understand by Tendering? Why is the wall / services required tendering in government sector? [4]
4. a) What is an intellectual property right? Write company registration procedure in Nepal. [4]
b) Define globalization and public private partnership. What are levels and sources of conflict in the organization? Elucidate the objective of safety engineering. [4]
5. Write short notes on: (any four) [2×4]
 - a) Technology and society
 - b) Scope of Nepal engineering council (NEC)
 - c) General condition of contract
 - d) Registration Process of engineering consulting form
 - e) Trade marks, Patents, Design

3 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2073 Bhadra

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 **All** questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

1. a) What are the major activities to be governed by the society for its survival? Illustrate the impacts of computer on Nepalese society. [4]
b) Explain how individual freedom balances societal goals. [4]
2. a) What do you mean by Profession? Explain its characteristics. [4]
b) What is ethics? Write in short the code of ethics for engineering profession. [4]
3. a) What are the preparations to be made before inviting competitive bidding notice? How the contract can be interpreted in case of ambiguity? Define percentage contract and in which category of procurement, this form of contract is adopted? [4]
b) What is intellectual property right? Write in briefly the working hour provision of labour law. Differentiate between public and private company. [4]
4. a) Explain business law and labour law in Nepal. [4]
b) Explain globalization and cross cultural issues. [4]
5. Write short notes on: (Any four) [2×4]
 - a) Jurisdiction of Nepal Engineering Council
 - b) Job description of fresh graduates
 - c) Detailed duties and liabilities of an engineer and architect .
 - d) Nepal Engineers Association
 - e) Society and development

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]
2. What is profession? Describe the code of ethics for engineers. Explain tort and liability. [8]
3. What is contract? Explain tendering process and contract agreement. Describe essential elements of contract. [8]
4. "Engineering profession always emphasizes on safety first in engineering delivery" Describe with typical examples. [8]
5. Write short notes on: (any four) [4×2]
 - 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

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]

10/12 D

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2071 Magh

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

10/12 D

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2071 Magh

Exam.	OLD Back (2065 & Earlier Batch)		
Level	BE	Full Marks	40
Programme	BCE, BEL, BEX, BCT, BME	Pass Marks	16
Year / Part	IV / II	Time	1 ½ 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.
- ✓ **All** questions carry equal marks.
- ✓ Assume suitable data if necessary.

1. a. Define society. Differentiate between society and community.
b. Explain the role of Engineers in developing the Nation. Be specific to your study area.
2. a. Define Ethics. Justify the statement 'Engineering is a Profession'
b. Define Moral, Ethics and Code of Conduct. Why code of conduct is necessary for Engineers?
3. a. What are the Objectives of Nepal Engineers Association? Give your opinion on how NEA can establish itself as leading professional association in Nepal
b. Define tender. Differentiate between bid security and performance security.
4. a. Define negligence, vicarious liability and liability of partners in Tort.
b. If you want to establish a consulting firm immediately after graduation?
5. a. Define copy right, patent right and trade mark. Explain the important features of Trade mark in Nepal.
b. An industry was using a chemical in making a product. The storage tank of the chemical waste, which was hazardous to health and environment, had a leakage. During inspection Er. X came to know leakage that had already taken place that might cause adverse impact on health and hygiene of the surrounding. You informed your boss about the event. Considering the possible social objection he requests you to be silent on the issue and also hints you that you may have to be out of the job if the case would go into the hands of social reformers. If you were Er. X what you would do?

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2070 Bhadra

Exam.	Regular		
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) Why is society necessary for engineers? What are the roles that an engineer can play in the society? [5]
b) What are the job description of a fresh engineer that can be appointed in a public organization. [5]
2. a) What do you understand by ethics? Why are code of conducts required for professionals? [5]
b) What are the detailed duties of an engineer in the profession? [5]
3. a) Define tender. Explain the purpose of tender. List the essential informations to be contained in the tender notice. [5]
b) What kind of liability that engineers most suffer from? Explain. [5]
4. Globalization has been an eye open opportunity for developing country. It helps transfer technology and development process but also a culture that loosens confidence on nationality. How can people work for development within their own culture with others as guide? Explain. [10]

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2070 Magh

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) Why the conflict exists between an individual's freedom and the social goal? [5]
b) How can building codes help the people to be safe? Explain [5]
2. a) What is a profession? What are liability and negligence? Write down the code of conduct to be followed by Engineerings? [5]
b) How do you mean by moral dilemma? Explain various ways to overcome dilemmas. [5]
3. a) What is contract? What are the essential elements of contract? [5]
b) Describe the health and safety provision of labour law? [5]
4. a) What is conflict? Discuss the dispute resolution process? [5]
b) Explain the Intellectual property and also explain the procedure of registration of copy right. [5]

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	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) 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. [2×5]
 - a) Theories of social change
 - b) Role of engineers in social development
 - c) Nepal Engineering Council
 - d) IT specific crimes in the society

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division

2067 Mangsir

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) Define society. Describe how engineers can contribute in the development of the rural society. [1+4]
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	BOE-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. 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. Level	Regular/Back		
	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 follow by Engineers. [5]
4. A trial-bridge (suspension bridge) over the Bheri River at Shubhaghat near Mehalkuna 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 SBD Engineers seem to indicate that the bridge failed due to faulty bulldog 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

8205