

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 conduct 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]

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INSTITUTE OF ENGINEERING
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2070 Magh

Exam. New Back (2066 & Later Batch)			
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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.
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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 Engineers? [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
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 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]
 - a) Copyrights, Patent and Trademarks [4+4]
 - b) Public Private Partnership
 - c) Liability and Negligence

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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.
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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]

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2072 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 any Four questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. Define society. Illustrate elements of society. Describe the relationship between man and society. Differentiate public and private sectors for engineering practice. [10]
2. What do you understand by professional practice? Describe the relation of engineer with client, contractor and fellow engineers. [10]
3. Describe intellectual property rights, copy rights, trademark and patent rights. Explain in detail the "public private partnership". [10]
4. Describe safety risk and benefit analysis in engineering practice. How do you resolve conflicts and disputes arising in professional practice? [10]
5. Write short notes on: (any four) [2.5×4]
 - a) Computer crimes
 - b) Tender and elements of tender
 - c) Job description of fresh engineers in public and private sector
 - d) scope of Nepal engineering council
 - e) Company registration process

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

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Examination Control Division
 2073 Magh

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) [2x4]
 - 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

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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) [2x4]
 - 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

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TRIBHUVAN UNIVERSITY
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Examination Control Division

2074 Magh

Exam.	Back	Full Marks	40
Level	BE	Pass Marks	16
Programme	BCE, BEL, BEX, BCT, BME, BGE, B. Agri.	Time	1 $\frac{1}{2}$ hrs.
Year / Part	IV / II		

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 criteria of society. [4]
2. Explain engineering morals, ethics and professionalism. [8]
3. Explain general job description of engineers working in the public sectors. [4]
4. Explain engineering council code of conduct and council act 2055 BS. [6]
5. Explain copy right act, patient right and trademark. [6]
6. Explain globalization and cross cultural issues. [4]
7. Explain contract law and labour law in Nepal. [8]

Exam.	Regular		
Level	BE	Full Marks	40
Programme	BCE, BME, BEL, BEX, BCT, BGE, B.Agric.	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) Write down in brief the Characteristics Features of Society. What are the elements of Community. (5)
- (b) What are the duties and Liability of an Engineer and Architect? (5)
2. (a) What do you understand by Negligence, Tort and Liability. What are the elements of Negligence. (5)
- (b) Define Ethics. What is moral and non-moral action? Write briefly the perspectives of Professional ethics. (5)
- (3) (a) What are the methods of recruitment of consultant. Explain the purpose of EOI and RFP. (5)
- (b) Define Contract. What are the "essentials elements in the Valid Contract? (5)
- (4) A RCC Bridge was designed by the Designer on behalf of Consultant. This was Constructed by the reputed "A" Class contractor. After the Completion of the Construction, traffic was allowed on the bridge. After Six Months of operation there were cracks in the Bridge. A Probe Team was established by Road department. The Design Procedure was Okay, but it was found that 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. 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 happened 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? (10)

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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]
