

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division

2082 Chaitra

Exam.	Regular		
Level	BE	Full Marks	40
Programme	BCE, BEL, BEI	Pass Marks	16
	BEX, BCT, BME		
	BAM, BAG, BGE		
	BCH		
Year / Part	IV/ II	Time	1 1/2 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. Describe the history of engineering practices in Nepal. Explain the relationship between man, society, technology, and how engineering practices have evolved in Eastern and Western societies. [2+3]
2. Define negligence, tort and liability. Describe the relation of engineer with client, contractor and fellow engineers. [3+3]
3. After graduating if you are to work in private sector as fresh engineer in your field of study, prepare relevant job description. [5]
4. Differentiate between agreement and contract. Explain essential elements of a valid contract. Under what conditions does a contract becomes void? [3+3+2]
5. Discuss the role and importance of Labor Law, Intellectual Property Rights, and Company Registration in the engineering profession in Nepal. Support your answer with examples of potential risks, liabilities, or ethical issues that arise from non-compliance. [3+2]
6. Define globalization and public private partnership. What are the levels and sources of conflict in organization? [2+3]
7. An engineer working in a consulting firm is asked by the management to reduce the safety margin in order to lower the project cost. [6]
 - a) Explain the ethical dilemma of public safety with reference to NEC code of conduct.
 - b) Discuss legal liability and consequences if any accident occurs.
 - c) Suggest appropriate professional action.

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2082 Shrawan

Exam.	Back		
Level	BE	Full Marks	40
Programme	All(Except BAR, BAS, 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. Discuss the significant contributions of eastern societies to the field of engineering. Provide specific examples of their engineering achievements. [4]
2. List the roles and responsibilities of the main professional engineering institutions in Nepal that help you to run your career smoothly. [4]
3. As a member of Nepal Engineers' Association (NEA), what would you suggest to promote professional capacity of a fresh engineer? [6]
4. List characteristics, advantages and disadvantages of each of the following business enterprises. [3+3]
 - a) Sole proprietorship firm
 - b) Partnership firm
 - c) Limited company
5. Discuss the intellectual property right and its related policies and regulations. [4]
6. Conflict is said to be inevitable outcome of behavioral interactions. In your opinion, is it sensible to have conflict or it should be avoided as far as possible. Justify your answer. [4]
7. Discuss the ethical considerations related to the extensive use of artificial intelligence (AI) in the engineering field. [4]
8. Write short notes on: (Any Two) [2×4]
 - a) Etiquette, Moral, Law and Ethics
 - b) Company registration process
 - c) Development and Environment
 - d) National and International Contract Bidding (NCB & ICB)

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2081 Chaitra

Exam.	Regular		
Level	BE	Full Marks	40
Programme	All (Except BAR, BAS, 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. Define social change. What are the major factors bringing changes in society? [4]
2. Define the term professionalism and discuss its key characteristics. [4]
3. Elaborate detailed duties/terms of reference (TOR) of fresh graduate Engineer (of your discipline) working in public and private sector. [6]
4. Discuss the importance, essentials and types of a valid contract. [6]
5. How does Nepal Engineering Council Act contribute to ensuring public safety and maintaining professional standards? [4]
6. A number of cracks, structural as well as settlement appeared in a building designed by an engineer within two years of its completion. Municipality had approved the design and drawing. Later it is found that without any soil investigation, structural design and detailing of reinforcement report had been prepared during the construction of the building. [8]
 - a) Discuss the position of the house owner
 - b) The engineer's role
 - c) The role of the Municipality
 - d) Who is ultimately responsible for the damage?
7. Write short notes: (Any Two) [2×4]
 - a) Tort and Liability
 - b) Public Private Partnership (PPP)
 - c) Conflict and Dispute Management
 - d) Copyright and Patents

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2081 Shrawan

Exam.	Back		
Level	BE	Full Marks	40
Programme	All(Except BAR, BAS)	Pass Marks	16
Year / Part	IV / II	Time	1 1/2 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. List down and explain the various theories of social change with example. [1+3]
2. a) Define moral and immoral actions. Explain the perception of general public towards Engineer and their professional works in the context of Nepal. [2+2]
 - b) What are the secular systems or methods of making ethical proper and good decisions? Define negligence, tort and liability. [1+3]
3. Write down and explain the job description of a freshly graduated engineer working in public sector in the context of Nepal. [4]
4. a) Explain any four important elements of Contract. Differentiate between void and voidable contract. [2+2]
 - b) As an Engineer, how does knowledge of contract help you in your professional career? Explain. Differentiate between bid validity period and bid security validity period. [2+2]
5. Define intellectual property rights. Explain (i) the process of registering copy rights in Nepal and (ii) the penalty for violating copy right in Nepal. [1+2+2]
6. a) What are the challenges of globalization do you see on engineering profession? Describe. [3]
 - b) "Construction is Destruction to Environment". Do you agree with this statement? Give reasons.. [3]
7. Shashikala is working as an engineer in municipality. One of the road construction project to be implemented by her office is surveyed and designed by a consulting firm that is owned by her collage friend Mr. Pran. Mr. Pran had contracted with the municipality office to survey and design the road through open competitive bidding system. While executing the survey work Shashikala convinced Pran to change the road alignment through her land that would increase the value of her land but would not benefit public so far. The project designed by Pran was presented at municipal office in presence of concerned employees including Shashikala and project was approved. Complain against it has been filed for misuse of Shashikalas' authority and making loss of public property. As a member of investigation committee on this complain, whom would you declare as guilt and why - Engineer Shashikala or owner of consulting firm, Pran? [5]

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2080 Chaitra

Exam.	Regular		
Level	BE	Full Marks	40
Programme	All(Except BAR,BAS)	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. Define the term society and community. Explain in brief the role of engineers in Social Change. [1+3]
2. a) Define profession and professional association. Write down the objectives of professional association. [2+2]
b) Explain moral dilemma and Vicarious liability with examples. Write down and explain priority while making ethical decision briefly. [1+3]
3. Write down and explain the job description of a freshly graduated engineer working in private sector in the context of Nepal. [4]
4. a) List down various method of work execution and explain any three mostly practiced types of contract briefly. [2+2]
b) You are project manager of a consulting firm in XYZ project in Nepal situated in Jumla District. Prepare a Tender notice inviting interested and eligible contractor to construct a temporary office building for your office with approximate cost of Rs 2,00,00,000. [4]
5. Differentiate between NEA and NEC. Explain various provisions regarding working hours as well as health and safety provisions according to labor law. [2+2]
6. a) Define PPP. Explain the importance of private sector in Development. [1+2]
b) Define dispute and conflict. Explain briefly various methods of resolving conflict. [1+2]
7. You are a part of a civil engineering team tasked with constructing a dam in a remote area. The dam will provide irrigation facilities, essential water supply for nearby communities and generate hydroelectric power, boosting regional development. However, the proposed site is within a pristine ecosystem, home to several endangered species and culturally significant sites for indigenous communities. Building the dam will involve clearing large areas of forest, flooding habitats, and potentially displacing indigenous communities. Being a member of a team, discuss the case and recommend your views and opinion in this situation. [6]

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2079 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 any **Four** questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

1. a) Describe about the impact of technology into the society and explain the relationship between human and society. [3+2]
 b) What is meant by moral and ethics? How do NEA and NEC contribute to maintain the profession to remain ethical? [5]
2. a) Read the case carefully and discuss the situation. [6]
 A factory was using a chemical in processing a product. The storage tank of chemical waste (which was hazardous to health and the environment) had a leak. During inspection, an engineer 'A' came to know that the leakage already taken place might cause adverse impact on health and hygiene of the surroundings. Mr. 'A' informed this to his boss about the event. Considering the possible social objection, the boss requested Mr. 'A' to be silent on the issue and also hinted to Mr. 'A' that he may have to be out of the job if the case would go into the hands of social reformers. If you are Mr. 'A', what you would do? Discuss.
 b) Write down job description of an engineer working in private and public sectors. [4]
3. a) Differentiate between contract and agreement. Describe the importance of contract and explain the elements of contract. [2+3]
 b) You are working in a government office and your boss asked you to prepare a notice for a building construction of Rs 10 corer, how will you prepare a notice and explain all the contents that should be included in the notice to publish? [5]
4. a) Explain about the labour law and explain why we should be aware of labour law while working in public or private organisation's. [3+2]
 b) Define intellectual property. Explain briefly trademark, and copyright in detail. [1+4]
5. Write short notes: (Any Two) [2×5]
 - a) Society and Information Communication Technology (ICT).
 - b) Types of business enterprises
 - c) Conflict of interest in profession.

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]

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.
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1. a) Explain why society is important for engineers? What are the key roles that an engineers plays in the society? [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]
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]
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]
b) How the PPP models help in any development activities? Write down the merits and demerits of globalization for developing countries like Nepal. [4]
 5. Write short notes on: (Any Two) [2×4]
 - 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]

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]

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 crack 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 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? (10)

03 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division

2074 Magh

Exam.	Back		
Level	BE	Full Marks	40
Programme	BCE, BEL, BEX, BCT, BME, BGE, B. Agri.	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 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, patent right and trademark. [6]
6. Explain globalization and cross cultural issues. [4]
7. Explain contract law and labour law in Nepal. [8]

5/30

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

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

6/15

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.	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

5/25

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

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

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
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]
