## **Examination Control Division**

#### 2080 Chaitra

opinion in this situation.

Exam.	Regular		
Level	BE	Full Marks	40
Programme	All(Except	The state of the s	***************************************
	BAR, BAS)	Pass Marks	16
Year / Part	IV / II	Time	$1^{1}/_{2}$ hrs.

[6]

## Subject: - Engineering Professional Practice (CE 752)

✓ Candidates are required to give their answers in their own words as far as practicable. ✓ Attempt <u>All</u> 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 [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

# **Examination Control Division**2079 Chaitra

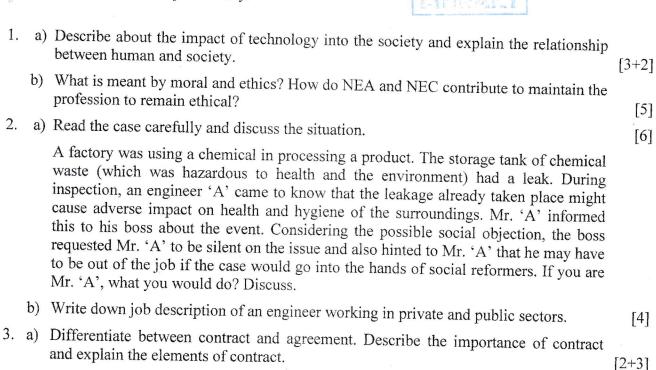
Exam.	I	Regular	
Level	BE	Full Marks	40
Programme	All (Except BAR)	Pass Marks	16
Year / Part	IV / II	Time	1 ½ hrs.

[5]

[3+2]

### Subject: - Engineering Professional Practice (CE 752)

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



- 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?
- 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.
  - 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.

### 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

[4]

[4]

[4]

[4]

[4]

[4]

[4]

[4]

 $[2\times4]$ 

### Subject: - Engineering Professional Practice (CE 752)

✓ Candidates are required to give their answers in their own words as far as practicable.

✓ Attempt <u>All</u> 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?
  - b) Write down the job description of a fresh engineering graduate appointed to a public organization.
- 2. a) What do you understand by the term Ethics? Why is it necessary for a professional to follow code of conducts?
  - 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.
- 3. a) Define contract. What are the essential elements of contract? In which condition contract will be void?
  - 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. 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.
  - b) How the PPP models help in any development activities? Write down the merits and demerits of globalization for developing countries like Nepal.
- 5. Write short notes on: (Any Two)
  - a) Conflict and Dispute management
  - b) Liability and Negligence
  - c) Intellectual property right

### **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 <u>All</u> questions.
- ✓ The figures in the margin indicate <u>Full Marks</u>.
- ✓ Assume suitable data if necessary.

1.	Define Society and Social Change. How does digital technology help our society in economic development?	
2.	a) Define profession and professional association. Discuss the role of Nepal Engineers' Association (NEA) for engineering professional development in Nepal.	[2+2] [2+2]
	b) Define ethics. Explain negligence, tort and liability with examples.	
3	What are the detail in the state of the detail in the state of the sta	[2+2]
J.	What are the detail job responsibilities of a gazette third class officer regarding engineering profession?	
	engineering protession:	[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]
5.	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	[ד]
	bargains with contractor for unwanted payment. Write down for and against it.	Traffice who have
	write down for and against it.	[4]

### **Examination Control Division**

#### 2076 Bhadra

Exam.	Regular / Back		
Level	BE	Full Marks	40
Programme	All except BAR and BIE	Pass Marks	16
Year / Part	IV / II	Time	11/2 hrs.

### Subject: - Engineering Professional Practice (CE 752)

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

	y.	•
1.	Why is society necessary to a man, or to an engineer? Explain.	[4]
2.	Define profession. Illustrate elements of profession.	[4]
3.	Describe briefly the elements of contract.	[4]
4.	Describe in brief the methods of contracting.	[4]
5.	Define intellectual property. Explain trademark, service mark, patent and copyright in brief.	[4]
6.	What are the factors which can affects your moral while practicing your profession. What are the core ethical values to prepare code of ethics.	[4]
7.	What are the risk factor in public private partnership projects? What are the methods to resolve dispute?	[4]
8.	Write down the professional code of conduct issued by Nepal Engineering Council (NEC). Elaborate the professional benefit you will get from NEA.	[4]
9.	Wht is a job description of a freshly graduated engineer in a private sector?	[4]
10.	What are the information you need to provide in a Tender-Notice?	[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? [5] Explain. 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 [2+3]registration in Nepal? 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
- 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]

### Examination Control Division 2074 Bhadra

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

(5)

(10)

### 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.
  - (a) Write down in brief the Characteristics Features of Society. What are the elements of Community.
    - (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 allowd 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?

### **Examination Control Division**

#### 2074 Magh

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

## Subject: - Engineering Professional Practice (CE752)

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

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

### **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.
- a) What are the major activities to be governed by the society for its survival? Illustrate [4] 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. 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 [4] and in which category of procurement, this form of contract is adopted? b) What is intellectual property right? Write in briefly the working hour provision of [4] labour law. Differentiate between public and private company. [4] a) Explain business law and labour law in Nepal. [4] b) Explain globalization and cross cultural issues. [2×4] Write short notes on: (Any four)
  - 5. WHILE SHOTT HOUSE OH. (FAIL) TOWN)
    - 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

### **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.

 $[2\times4]$ 

## 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)
  - 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

# 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 1/2 hrs

[8]

[8]

[8]

[8]

### 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.
- 2. What is profession? Describe the code of ethics for engineers. Explain tort and liability.
- 3. What is contract? Explain tendering process and contract agreement. Describe essential elements of contract.
- "Engineering profession always emphasizes on safety first in engineering delivery"
   Describe with typical examples.
- 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

### Examination Control Division 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

## **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	11/2 hrs

# Subject: - Engineering Professional Practice (CE752)

- Candidates are required to give their answers in their own words as far as practicable.
- Attempt All questions.

		Attempt <u>All</u> questions.	
		The figures in the margin indicate <u>Full Marks</u> .	
	1	Assume suitable data if necessary.	
	1. 1	a) Discuss on the impact of technology into the society.	[4]
		b) Discuss about the engineering practice in Nepal.	[4]
		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. State	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]

developing country like Nepal?

## **Examination Control Division**

2071 Magh

Exam.	New Bac	CO66 & Lav	9 (81(81) s 40.
Level	All (Except	Pass Marl	
Programi	The state of the s	Time	1½ hrs.
Year / Par	t JV/II ··		

[4]

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[8]

[4]

[4]

[4+4]

# 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?
  - b) Define moral dilemma. What are fundamental laws of ethics to overcome moral dilemma?
- 2. a) Define Profession. Illustrate the characteristics of a Profession.
  - b) What are the detail duties and responsibilities of Nepal Engineering Council (NEC)? How do you differentiate professional ethics with moral behavior?
- 3. You are working as an Engineer from a Consulting Engineering Firm. You 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?
- 4. a) Define contract document. What are the priorities of contract documents? Explain the rules of contract interpretation.
  - 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?
- 5. Write short notes on: (any two)
  - a) Copyrights, Patent and Trademarks
  - b) Public Private Partnership
  - c) Liability and Negligence

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### **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 *	11/2 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 been appointed in a public organization. [5] 2. a) What do you understand by ethics? Why are code of conducts required for professionals? [5] [5] b) What are the detailed duties of an engineer in the profession? 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.

#### **Examination Control Division**•

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

[5]

[2+3]

[2.5×4]

[10]

#### 2069 Bhadra

## 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 21<sup>st</sup> 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.
  - b) Elaborate the differences between void and voidable contract. Explain briefly about general conditions of contract and its essential contents.
- 4. a) Explain tort. What are the reasons behind introducing tort law in the society? How do you distinguish copyright with paten right? [1+1+3]
  - b) Differentiate between public limited company and private limited company.
- 5. Write short notes on:
  - 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.