

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2076 Chaitra

Exam.	Regular		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1½ hrs.

Subject: - Technology Environment & Society (CE 708)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any Five question.
- ✓ All questions carry equal marks.
- ✓ Assume suitable data if necessary.

1. Write short notes on:
 - a) Technology is irreversible.
 - b) Conflict of technology with examples.
2. Discuss about components of sustainable development. How do you relate LEP approaches with sustainable development?
3. State and explain environmental sanitation. Also discuss pathways of fecal-oral infection Transmission route.
4. Differentiate between information age and industrial age. Also explain information is power and wealth.
5. What are current environmental issues? Compare the environmental issues of Nepal to global issues.
6. What are the impacts of climate change in Nepal? Explain briefly the international efforts towards mitigation of climate change impact.

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2075 Chaitra

Exam.	Regular / Back		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1 ½ hrs.

Subject: - Technology Environment and Society (CE 708)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ *Attempt any **Five** questions.*
- ✓ ***All** questions carry equal marks.*
- ✓ *Assume suitable data if necessary.*

1. Write short notes on:
 - a) Technology both as a curse and a blessing
 - b) Significance of appropriate technology in Nepal
2. a) What is Ethnography study? Explain how information is collected in this approach.
b) Explain why Resource Mapping is carried out.
3. Summarize the impacts of World War I and II. Also describe population explosion.
4. Discuss all the major environmental issues of Nepal. Also write down probable strategies to mitigate those issues.
5. What are causes of air pollution in Kathmandu Valley? Describe its effect and possible mitigation measures.
6. What is climate change? State and explain gases which causes climate change. Also write major symptoms of climate change in Nepal.

TRIBHUVAN UNIVERSITY
- INSTITUTE OF ENGINEERING
Examination Control Division
2076 Ashwin

Exam.	Back		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1 ½ hrs.

Subject: - Technology Environment and Society (CE 708)

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

1. Explain the differences between Industrial age and Information age. Also explain knowledge is wealth. [8]
2. Describe the pros and cons of using structured questionnaires. In what situations should you conduct this procedure? Also write about focus group meeting. [8]
3. What do you mean by conflict of resources? What are the main causes of conflict of natural resources? Also explain ecology ecosystems. [8]
4. Explain differences between on-site and off-site sanitation. Describe fecal-oral transmission route and list out preventive measures against fecal-oral infections. [8]
5. a) Explain what is global warming? Write down international effects to mitigate it. [4]
b) Describe causes and impacts of deforestation in Nepal. [4]
6. Write notes on: (Any two) [4+4]
 - a) European Renaissance
 - b) Industrial Revolution
 - c) Impacts after World War II
 - d) Major global environmental issues

Exam.	Regular		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1 ½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any **Five** questions.
- ✓ **All** questions carry equal marks.
- ✓ Assume suitable data if necessary.

1. Discuss how technology changes people values, culture and tradition of a society.
2. Explain, what is information age? Also write down how the industrial society entered into information society.
3. Explain water pollution. Write down fecal oral infection route and discuss their mitigation measures.
4. What is climate change? State and explain gases which cause climate change. Discuss all the possible interventions to mitigate climate change.
5. a) Explain conflict of technology.
b) Discuss technology can unmask old social problems.
6. Write notes on:
 - a) Focus group discussion
 - b) Major environment issues of Nepal

Exam.	BEI		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1 ½ hrs.

Subject: - Technology, Environment and Society (CE708)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any Five questions.
- ✓ All questions carry equal marks.
- ✓ Assume suitable data if necessary.

1. What do you understand by the term technology? How it changes culture and traditions of a society?
2. Define participatory appraisal. Explain focus group discussion and resources mapping.
3. What is environment sanitation? Discuss fecal oral infection transmission route.
4. Why knowledge is important in the information age. Also write down characteristics of the information age.
5. What are climate change gases? Write down the probable impact and mitigation measures of the climate change.
6. Write down causes, effects and mitigation measures of air pollution.

Exam.	Regular		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1 ½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
 - ✓ Attempt any Five questions.
 - ✓ All questions carry equal marks.
 - ✓ Assume suitable data if necessary.
1. Explain technology can unmark social problems of a society.
 2. What is the role of a users' committee? Also explain participatory techniques to collect information from a community.
 3. What is organic pollution in drinking water? Discuss in detail aerobic and anaerobic decomposition process.
 4. Write down causes, effects and mitigation measures of air pollution.
 5. What is information society? Explain how agricultural society entered into information society.
 6. Write short notes on any two:
 - a) Climate change
 - b) Conflict of technology
 - c) Impact of World War I and II

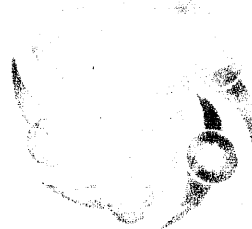
Exam.	Back		
	Level	BE	Full Marks
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1 ½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any **Five** questions.
- ✓ **All** questions carry equal marks.
- ✓ Assume suitable data if necessary.

1. Discuss technology provides shift in employment opportunity.
2. What is participatory approach? Also explain appropriate technology and labour intensive technology.
3. Explain in detail why 13, 14, 15 centuries are called Great Renaissance or intellectual revival of Europe.
4. What are climate change gases? Write down its mitigation measures. Also explain international efforts to tackle its problem.
5. Explain how fecal-oral infections transfer from one person to another. Also discuss preventive measures.
6. Write short notes on any two.
 - a) Air pollution
 - b) Information age
 - c) Focus-Group Discussion

F20 5072



16 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2072 Chaitra

Exam.	Regular		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1 ½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any **Five** questions.
- ✓ All questions carry equal marks.
- ✓ Assume suitable data if necessary.

1. What are appropriate and intermediate technologies? Why is labor based or labor intensive technology necessary for LDCs like Nepal?
2. What are resources mapping? How is wealth and poverty ranked?
3. What is population explosion? What are the reasons for it? How do you view the current trend of decreasing population in the developed countries?
4. What are the major immediate environmental issues for Nepal? How can the use of technology be beneficial in solving them?

OR

Discuss the severity of inorganic water pollution problem in Nepal? Give your plans to mitigate their problems.

5. What are the current international efforts being made to mitigate the problems caused by climate change? Are they enough?

13 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2073 Shrawan

Exam.	New Back (2066 & Later Batch)		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1 ½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any **Five** questions.
- ✓ **All** questions carry equal marks.
- ✓ Assume suitable data if necessary.

1. What do you mean by technology? Discuss about its benefits in education sector. [2+6]
2. Describe the LEP approach for the development of Nepal. Explain community empowerment process of participatory approach. [4+4]
3. What do you mean by climate change? Discuss about its cause, impact and mitigation measures. [2+6]
4. Discuss about the global environmental issues. Also discuss key environmental issues of Nepal. [4+4]
5. What are characteristics of agriculture, industrial and information age? [8]
6. Explain how does technology change culture and tradition of a society? [8]

Examination Control Division
- 2071 Chaitra

Exam.	Regular		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1 ½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ 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 how technology can unmask old social problems. [6]
2. Why climate change is a threat to civilization? Explain its impact and mitigation measures in detail. [6]
3. Compare and contrast industrial age and information age. [4]
4. What is ecosystem? What are the primary reasons of human interventions in the ecosystem? Recommend feasible solution regarding these issues. [6]
5. What is pollution? What is onsite sanitation and health education? Discuss on fecal oral infection transmission route and effective prevention measures. [6]
6. Write notes on: (any three) [12]
 - a) Focus Group Discussion
 - b) Resources Mapping
 - c) Appropriate Technology
 - d) Renewable and Non renewable resources

Examination Control Division

2072 Kartik

Exam.	New Back (2066 & Later Batch)		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time "	1 ½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ 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. How does technology impact on culture, traditions and society? [5]
2. Elaborate the statement that "Information is wealth and power in modern society." [5]
3. What is community management? How can an engineer facilitate it? [4]
4. What is participatory approach and how can it empower the community? [4]
5. What was the role of the two world wars in advancing technology? How did they shape the new cultural values? [5]
6. What is the conservation of environment? How can it be done without hindering the development? [4]
7. Discuss the severity of water and air pollution problem in Nepal? Give your plans to solve this problem effectively and in short time. [8]
8. "Nepal is one of the least responsible countries for global climate change but it is one of the most affected." Elaborate the statement. [5]

Exam.	New Back (2066 & Later Batch)		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ 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 technology and its impact on societies. Define appropriate technology and its relevancy to LDC. [7]

Or

Technological innovation reveal the old social problem but "science without humanity" is sin, discuss.

2. What is LEP? Discuss about ethnographic approach and participatory approach for community management. What is the role of an engineer in community development? [6.5]
3. The great renaissance of Europe in 13th, 14th and 15th century is foundation to enter the industrial society from agricultural one. Discuss [6.5]

or

How do you enlighten the civilization? Compare agriculture society with industrial society and how industrial societies enter into information society?

4. What is ecosystem? What are the main causes of human interventions in the ecosystem? Make clear the term conservation and preservation of natural resources. [7]
5. Describe the fecal oral transmission route. How you evaluate the health education regarding the water and air pollution in environment. [6.5]
6. What is climate change and what are the cause and impacts of CC? What can be feasible solution to preserve the climate change effects in LDC? [6.5]

13 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2070 Chaitra

Exam.	Regular		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ 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 impact of technology on environment and society. [4]
b) Compare the characteristics of information society with industrial society. [4]
2. What are the key features of infrastructure development polices of Nepal? [7]
3. a) Explain Stone Age civilization. [4]
b) Explain conservation and protection of environment. [4]
4. a) What are the sources and types of water pollution? [4]
b) What is the relation of air pollution and climate charge? [4]
5. Write short notes on: (any three) [3×3]
 - i) Technology is irreversible
 - ii) Importance of health education
 - iii) Organic farming
 - iv) Participatory approach

II TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2070 Ashad

Exam.	New Back (2066 & Later Batch)		
Level	BE	Full Marks	40
Programme	BEL	Pass Marks	16
Year / Part	IV / I	Time	1½ hrs.

Subject: - Technology Environment and Society (CE708)

- ✓ 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 technology provides shift in employment due to its advancement. [8]
 2. Explain in detail labour based, environment friendly and participatory (LEP) approach in infrastructure development. [8]
 3. What do you mean pathogenic pollution in drinking water? Also write down its transmission route and prevention measures. [8]
 4. Write detailed notes on: [4×4]
 - a) Climate change
 - b) Impact of world war I and II
 - c) Global and national environmental issues
 - d) Technology and water air pollution



23 : TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2067 Mangsir

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

Subject: - Technology, Environment and Society

- ✓ 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. Write down in detail the great renaissance of Europe (intellectual revival) in 13th to 15th century.
 2. Explain "technology extends human facilities". Explain this statement.
 3. What is safe drinking water? Explain the various impurities in water. Also write down the various disinfection methods.
 4. Write down in detail the characteristics of a least developed nation like Nepal.
 5. Write short notes on: (any two)
 - a) Acid Rain
 - b) Noise Pollution
 - c) Bio-gas

Examination Control Division

2068 Bhadra

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

Subject: - Technology, Environment and Society

- ✓ 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. What do you mean by global village? Explain its characteristics. Also write about information age.
2. Explain in detail how technology controls price of goods and services?
3. Write down various sources of organic pollution in water. Explain in detail how organic pollution is reduced in various engineering structures.
4. Discuss the following terms: annual plan, periodic plan, strategic plan and perspective plan.
5. Write short notes on:
 - a) Acid Rain
 - b) Air pollution
 - c) Noise pollution
 - d) Ecosystem
