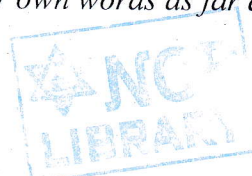


TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2082 Shrawan

Exam.	Back		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Construction Safety Management (Elective III) (CE 78502)

- ✓ 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.



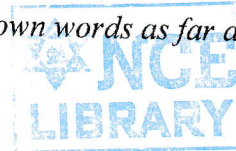
1. Discuss on the importance of safety management in execution of any infrastructure project. [7]
2. What are the reasons, causes and impact of construction accidents? How do you determine the Accident Frequency Rate (AFR) of any construction company? Explain. [6+4]
3. Discuss on the organization and behavior aspect of construction parties in context of Nepalese construction industry. [8]
4. Explain in detail how accident reporting activity is carried out in construction site. [8]
5. What safety measures do you follow regarding the work place and working platforms? [7]
6. What safety measures do you adopt while working on tunneling and excavation operations? [8]
7. How construction workers health gets affected by using the heavy construction equipment? Explain about the accident that may cause during the operation of cranes and its prevention. [8]
8. Discuss about the importance and steps in selection of employees for construction work. [6]
9. What is job stress? What are the job stressors at construction site? Discuss the effect of job stressors. [6]
10. Explain how ILO and OSHA advocates the safety concerns of construction worker. [6]
11. Discuss on the roles of various construction parties regarding the safety of the construction projects. [6]

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2081 Chaitra

Exam.	Regular		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV/ II	Time	3 hrs.

Subject: - Construction Safety Management (Elective III) (CE78502)

- ✓ 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.



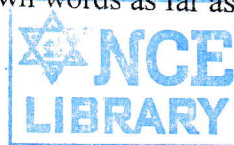
1. "Safety is considered as the integral part of the management of construction project". Discuss the statement with importance, need and requirement of construction safety. [8]
2. Discuss in detail about the evolution of safety concept in terms of design aspects developed by Michael Behm. How do you calculate the Accident Frequency Rate? [6+4]
3. What is confined space? Why working on confined space is more hazardous than other places? What safety precautions do you adopt for working in such area? [1+4+4]
4. Discuss on the different ways for the improvement of the construction site safety. [6]
5. What safety measures do you adopt while working on excavation and tunneling operations? [5+5]
6. Write down the rights and obligations of employees and employer? Explain how the health of equipment operators is affected while operating equipment on site? [4+4]
7. "Motivation plays an important role in construction of safe structure". Do you agree? Explain in regards of motivational role played by management, supervisors and workers. [7]
8. What do you understand by job stress and its effect? What are the job stressors in construction site? Also explain how you cope with job stress. [2+3+3]
9. Explain the objective of ILO and OSHA. Discuss in detail the contract conditions of safety in civil Work projects? [3+3]
10. Write short notes on: (Any Two) [2×4]
 - a) Role of manufacturer and designer in safety
 - b) Safety legislation
 - c) Cost of safety program

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2080 Chaitra

Exam.	Regular		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Construction Safety Management (Elective III) (CE 78502)

- ✓ 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. "Safety management is considered as one of the integral part for the execution of construction project". Justify the statement with suitable example. [6]
2. What are the major issues in construction safety management and how the measurement of construction safety performance is carried out? Explain. [8]
3. Consider the construction company having 200 employees working 7 hrs a day and 6 days a week and had 6 recorded accidents in the previous year. The total of 180,000 hours worked across the company or project. Calculate the accident frequency rate (AFR) of the company. [5]
4. Why working on the confined space is more difficult than other normal places? Explain the safety measures to be acquired while working on confined spaces. [7]
5. Explain on ways to improve the construction site safety management. [6]
6. What are the major preventive majors that should be followed while carrying out the Blasting and tunneling operations. [12]
7. What do you understand by job stress and explain its effect in detail? [5]
8. What is cost of safety programs? Write down the steps of placement and selection of an employee. [2+4]
9. Why safety legislation is important in construction industry? Discuss on the situation of occupational health and safety in Nepalese construction industry. [4+6]
10. Write short notes on:(Any Three) [3×5]
 - a) ILO and OSHA
 - b) Accident reporting
 - c) Nature and causes of construction accident
 - d) Role of motivation in Construction safety
 - e) Direct and indirect cost of an accident

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2079 Chaitra

Exam.	Regular		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Construction Safety Management (*Elective III*) (CE 78502)

- ✓ 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. "Safety is one of the most important/inevitable aspect for construction project". Justify the statement. [7]
2. Discuss on the history and the current situation of construction safety management in context of Nepal. [8]
3. What are the major point that should be taken in consideration for the storage of materials? [5]
4. Explain in detail how accident reporting activity is carried out at building construction site. [8]
5. What safety measures do you adopt while working on Tunneling and scaffolding operations? [8]
6. Discuss about the psychology of the construction worker. Explain about the accident that may cause during the operation of cranes and its prevention. [8]
7. How motivation plays an important role for the reduction of construction accident? Explain in regards of motivational role played by management, supervisors and workers. [8]
8. What is job stress? What are the job stressors at construction site? Discuss the effect of job stressors. [6]
9. Explain how ILO and OSHA advocates the safety concerns of construction worker. [6]
10. Discuss in detail the situation of Health and Safety condition regarding the construction safety in Nepal. [6]
11. Write short notes on: (Any Two) [2×5]
 - a) Nature of construction accidents
 - b) Roles of various parties in safety management
 - c) Evolution of construction safety concept
 - d) Safety measures for blasting operation

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2077 Chaitra

Exam.	Regular		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Construction Safety Management (Elective III) (CE78502)

- ✓ 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 Construction safety management. Is the provision of safety management taken into consideration for execution of construction projects in Nepal? Discuss. [2+6]
2. Differentiate between the physical, physiological and psychological causes of accident. Consider the construction company having 150 employees working 8 hours a day and 6 days a week and has had 6 recorded accidents in the previous year. The total of 160,000 hours worked across the company or project. Calculate the accident frequency rate (AFR) of the company. [3+4]
3. As a civil engineering professional, what are the major issues you see regarding the safety and its management and performance? Discuss. [10]
4. What are construction accidents? List out the nature of construction accidents. What steps do you follow for reporting any type of construction accidents? [1+3+6]
5. Discuss in detail what are the major safety measures that should be considered for tunneling and excavation work? [10]
6. Write down the motivational role played by management, supervisor and worker regarding the safety management. [6]
7. Explain the safety measures required while operating vehicles and cranes. [6]
8. What are the related physical factors that may affect the performance of the construction workers? [5]
9. Explain the role of ILO and OSHA. Discuss in detail the situation of Health and Safety condition regarding the construction safety in Nepal. [4+6]
10. Why safety legislation is important in construction Industry? Discuss in short, the safety code applicable in construction industry. [4+4]

6 B TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2075 Bhadra

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Exam.	Regular		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Construction Safety Management (Elective III) (CE78502)

- ✓ 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 about the current situation of construction safety in Context of Nepal. [8]
2. Write down the recommendations made by Michael Behm in order to understand status of construction safety? [5]
3. Discuss in detail about the behavior of labor and contractor regarding the safety measures in Nepal. [6]
4. What safety rules do you follow for storage of materials and first aid and medical care? [6]
5. Define safety organization. What sort of safety measures do you recommend for lifting work and tunneling works? [2+4+4]
6. Explain how health equipment workers is affected while handling it. What safety measures are adopted while working on temporary power supply? [8]
7. What is direct and indirect cost of an accident? Explain in detail the related physical factors that may cause accidents in construction site. [4+6]
8. What is job stress and job stressor? Why stress is also seen in the positive aspect? Explain the effect of work place stress. [4+3+3]
9. Discuss in detail the motivational role played by the supervisors and workers to maintain safety in construction work. [8]
10. Explain how ILO does and OSHA advocates the safety concerns of construction worker. Explain the current situation of occupational health and safety provision in Nepal. [4+5]

06B TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2074 Magh

Exam.	Back		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Construction Safety Management (*Elective III*) (CE78502)

- ✓ 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 Construction safety management? Explain why safety is important during the execution of construction project work? (2+6)
2. Discuss about the behavior of labor and contractor regarding the safety measures. (4+4)
3. What is safety organization? What safety measures do you follow for the construction work place and equipment? (2+6)
4. Discuss in detail about the planning of safety required for the construction operations. (6)
5. Explain in detail about the safety measures that should be undertaken during the tunneling and scaffolding? (5+5)
6. Discuss about the psychology of the construction worker. Explain about the accident that may cause during the operation of cranes and its prevention. (3+5)
7. Discuss about the importance and steps in selection of employees for construction work. (3+5)
8. Explain in detail the role of International labor organization (ILO) in maintaining the safe working environment and protecting labor rights. (8)
9. Write Short Notes on (any four) (4 * 4)
 - (a) Role of worker in safety management
 - (b) Job stressors and its effect
 - (c) Accident and its impact
 - (d) Accident reporting
 - (e) Biomechanics and ergonomics

6 B TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2073 Magh

Exam.	New Back (2066 & Later Batch)		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Construction Safety Management (*Elective III*) (CE78502)

- ✓ 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. What is social impact of accidents? Discuss about the evolution of construction safety concept developed by Michael Behm. [2+8]
2. Discuss about the major organizational aspects of the construction industry in order to understand the status of safety. [8]
3. What is safety organization? Explain in detail the safety procedure for working platforms. [3+7]
4. What safety measures do you follow during the building work and excavation? [10]
5. Discuss in detail about the safety procedures undertaken for temporary power supply. [8]
6. What is job stress and job stressor? Explain in detail about the stress in the work place. [4+6]
7. Explain in detail how can workers personally protect their body during the construction work? [8]
8. "In Nepal the health and safety provisions for workers is not up to the standard as mentioned by OSHA". Do you agree? Discuss. [10]
9. What role does the designer play regarding the construction safety management? [6]

06B TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2071 Bhadra

Exam.	Regular / Back		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

Subject: - Construction Safety Management (*Elective III*) (CE78502)

- ✓ 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. What is a construction accident? Explain the major impacts caused by an accident. (2+4)
2. Why construction safety management is considered as the important area in the execution of any construction project. (6)
3. List out the important safety rules to be considered during construction process? Explain in detail what steps do you follow for accident reporting. (2+6)
4. Explain in detail about the safety procedure to be followed for workplace and equipment. (8)
5. What safety measures do you follow during the following construction work: blasting, tunneling, (5+5)
6. How can the health of the worker are affected during the operation of heavy machine. Explain with example. (8)
7. What do you understand by job stress and explain its effect? (5)
8. What is cost of safety programs? Write down the steps of placement and selection of an employee. (5+3)
9. Explain how can be the finger, arm and hand be protected during the execution of equipments. (5)
10. What does ILO stands for? Explain about the provision of health and safety of construction worker in Nepal. (8)
11. Discuss about the role of various parties for the safety management. (8)
