

ANNAMALAI UNIVERSITY

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DEPARTMENT OF CIVIL & STRUCTURAL ENGINEERING

(DST-FIST Sponsored Department)

(NBA Accredited)

(Annamalainagar - 608 002)



ASSIGNMENT QUESTIONS

DECEMBER 2019 - APRIL 2020

NAME : Dr. R. Baskar

STAFF ID :04117

DESIGNATION: Professor Civil and Structural Engineering.

FACULTY: Faculty of Engineering & Technology

PROGRAM: M.E Construction Engineering & Management.

COURSE: Safety in construction

COURSE CODE: CZCMPC21

CREDIT : 3

YEAR/SEMESTER: I/II

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Name of the Faculty	Dr.R.BASKAR		Designation	Professor	
Name of the Course		Safety in Construction			
Course code		CZCMPC21	Credits	3	
Year	I	Semester	II	Section	Nil
Compulsory/Elective course		Compulsory			
Course offered to the Department			CIVIL & STRUCTURAL		
Academic Year	2019-2020		Batch	2019-2021	
ASSIGNMENT QUESTIONS					

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UNIT 1 CONSTRUCTION ACCIDENTS

Part-A: 3MARK

1	What are the different causes of Accidents?
2	What are the different types of construction accidents?
3	What are the Human factors to be considered in the construction site safety?

Extra questions:

1	What are the effects of accidents?
2	Define Accident
3	What are the causes of accidents at site?
4	What are Human factors in Construction Safety?
5	How the rate of accidents is calculated?
6	What is OSHA?
7	How the accident is prevented before it happens?
8	Give an account on safety standards
9	What is cost of construction injuries?
10	What is the classification of construction accidents?

Part-B: 12 MARK

1	What are the Legal implications in construction accidents?
2	What are the occupational and safety hazard assessment?
3	a) Write about the cost of construction injuries.
	b) Write about the types and causes of accidents in terms of construction.

Extra questions:

1	Write about construction accidents and their causes?
2	What are the occupational and safety hazard assessment?



UNIT 2 CONSTRUCTION SAFETY MANAGEMENT

Part-A: 3 MARK

1	Define safety management in construction.
2	What kind of reports was being prepared as safety aspects in construction?
3	List out types of safety training programmes?
4	What are the factors governing safety in construction?
5	Define Safety Committee.
6	What are the functions of Supervisors?
7	Who is the responsible person for safety in construction?
8	Write about importance of Safety Training
9	What are the responsibilities of General employees?
10	What are the advantages of monitoring?

Extra questions:

1	State the responsibilities of top management with respect to construction safety.
2	Who prepares safety manuals on what based?
3	What kind of details should be in inspection reports?
4	What is the role of safety officers in construction?
5	State basic duties and responsibilities in construction safety management.

Part-B: 12 MARK

1	Write the need and uses of construction safety manual?
2	What are the different types of Safety Training?
3	What are the roles and responsibilities of Construction Workers?
4	Explain about Labour safety in construction industry.
5	Explain the responsibilities of safety officers?

Extra questions:

1	Give a brief explanation on safety manuals preparation.
2	Who are the responsible person and their duties with few examples?
3	What is the basic responsibility to be known by the labour crews in safety measures?
4	Discuss about roles and responsibilities concerned in construction safety.
5	Write a Case Study on Construction Safety Management.



UNIT 3 SAFETY IN CONSTRUCTION OPERATIONS

Part-A: 3 MARK

1	What are the different types of Construction project?
2	Define Safety in construction.
3	Explain the prevention measures in construction.
4	What are the equipments used for construction at site?
5	What are the electrical components involved in construction?

Extra questions:

1	What is safety operation?
2	What is safety in building and construction industry?
3	What are safety measures in different stages of construction?
4	Discuss the most important safety rules in construction.
5	Give a five basic safety rules.
6	How can we improve workplace safety?
7	State the role of various agencies in safety management
8	What are safety measures?
9	What are the five electrical tips to be concerned?
10	How safety measurement is calculated?

Part-B: 12 MARK

1	Explain the different types of accidents in construction site.
2	How to prevent accidents in construction site?
3	What is the role of Safety Committee in Construction?
4	What are the Safety measures to be taken While Using Electrical Appliances?
5	What are the various types of Accident and Their Causes in Dam Construction.

Extra questions:

1	What is the safety to be concerned in building construction?
2	Give an account on safety benefits and measurement.
3	What is safety in various stages of construction generally?
4	Give a brief account on any safety in construction on heavy structure with neat picturized sign for safety
5	Write a Case Study on Demolition and safety carried out on demolition process.



UNIT 4 VARIOUS SAFETY EQUIPMENTS AND GEAR USED ON SITE

Part-A: 3 MARK

1	Define first aid.
2	What is safety awareness?
3	Define labour law?
4	Write the legal requirements for safety, health and welfare at work act 2005?
5	What does safety incentives means?
6	What are the first aid requirements for sites?
7	What are the goals of first aid?
8	Is workplace safety training required?
9	Write about Contract Labour Act?
10	What is meant by cost of construction accident?

Extra questions:

1	What is ABC in First Aid?
2	What are the types of First Aid?
3	State the aim of First Aid.
4	Define Safety Incentive
5	Discuss elements of an effective health and safety program.

Part-B: 12 MARK

1	What are the steps for an effective safety awareness program?
2	What is construction accident law?
3	What is the hazard control in construction site safety?
4	What are the keys or guidelines for successful safety incentive program?

Extra questions:

1	Draw a pyramid for hazard control
2	What is personal protective equipment for construction?
3	What are basic employment rights for a worker?
4	State the functions of labour laws.
5	What is safety cost?
6	Discuss the safety in erection of machinery and equipments.
7	What kind of immediate action to be taken in case of an accident?
8	Give a brief account on Accident Prevention Programme.
9	Discuss Legal problems in Safety Management.
10	Describe Insurance to cover risks in construction.



UNIT 5 STUDY OF SAFETY POLICIES IN CONSTRUCTION

Part-A: 3 MARK

1	What is the first rule of safety?
2	Define safety policy
3	Why health and safety is important in construction?
4	What is CFR in safety?
5	How many types of hazards are there in OSHA?
6	State the three general sections in a safety policy.
7	Briefly hazard identification and assessment.
8	Explain communication for employers on worksites.
9	Give impact of building information modelling on site safety.
10	State emergency action plan.

Extra questions:

1	What is meant by ISO construction?
2	How ISO certification can help your construction company?
3	What is the reason for ISO 9001 to become a valuable accreditation for companies in the sector?
4	What are the elements in ISO 9001?
5	Why is office safety important?
6	What does safety policy mean?
7	What are the benefits of ISO certification?
8	What is the consideration in deep excavation?
9	What are the safety excavation tips?
10	How to develop a safety and health policy?

Part-B: 12 MARK

1	Explain about protection of the public on construction management.
2	Give an account on safety and rescue equipment.
3	State workplace- health, safety and welfare regulations 1992
4	Explain the safety policy suggested for a residential project.
5	Explain any one case study related to safety in construction.

Extra questions:

1	What are the elements of an effective safety culture?
2	What is the high rise construction risk assessment?
3	Explain in detail benefits of ISO 9001 in the construction industry?
4	Explain all the elements in ISO 9001?