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**Question Paper Code: U8164**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024

One credit

Civil Engineering

21UCE864- CONSTRUCTION SAFETY

(Regulations 2021)

(Common to All Branches)

Duration: 1.30 minutes

Maximum: 50 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. What should slope angle for excavation of trenches in granular soils? CO1-U  
(a)  $34^0$                       (b)  $40^0$                       (c)  $45^0$                       (d)  $38^0$
2. What is the role of Safety officers? CO1-U  
(a) To Ensure operations with safety standards  
(b) To Ensure Proper checking of Equipments  
(c) To Ensure proper work environment.  
(d) All of the above
3. The following is indirect cost of accident CO1-U  
(a) Money paid for treatment of worker                      (b) Compensation paid to worker  
(c) Cost of lost time of injured worker                      (d) All of the above
4. \_\_\_\_\_ of every year is celebrated as National Safety Day. CO1-U  
(a) March 4                      (b) April 4                      (c) March 14                      (d) April 14
5. \_\_\_\_\_ is provided to safeguard scaffolding against overturning. CO1-U  
(a) Standards                      (b) Inclined rackers                      (c) Put-logs                      (d) Rails
6. PDCA stands for CO1-U  
(a) Plan-do-check-act                      (b) Plan-do-clean-act  
(c) Prepare-do-clean-act                      (d) Prepare-do-check-act

7. A safety management system defines CO1-U
- (a) The safety processes and milestones for a development project
- (b) A whole organization's approach to safety management.
- (c) A whole organization's approach to workplace health and safety
- (d) The safety evidence requirements for a system test programme
8. The reasons for considering safety include CO1-U
- (a) Humanitarian Concern (b) Economic Reasons
- (c) Laws and Regulations (d) All of the above
9. What is the role of the workplace's health and safety representative? CO1-U
- (a) To represent the workers' views and concerns on the workplace's OH&S practices to the employer
- (b) To document the workplace's OH&S policies and practices
- (c) To check on whether all workers are complying with the workplace's OH&S policies and practices
- (d) To train and assess all workers in their knowledge of the workplace's OH&S policies and practices
10. The main steps of the risk management process are: CO1-U
- (a) identifying hazards, assessing and controlling risks, monitoring and reviewing control measures
- (b) consultation, training and information management
- (c) workplace inspections, checklists, records and information
- (d) monitoring hazardous levels, health surveillance, training and recording

PART – B (5 x 2= 10Marks)

11. Define Construction Safety. CO1- U
12. List the causes of construction accidents. CO1 -U
13. Define Safety Management. CO1- U
14. Define Safety Audit. CO1- U
15. What are the duties of a safety officer? CO1- U

PART – C (2 x 15= 30Marks)

16. (a) Explain in detail about the safety precautions during project construction. CO1- U (15)

Or

- |         |   |        |      |
|---------|---|--------|------|
| (b)     | Discuss in detail about the precautions to be taken for the following | CO1- U | (15) |
|         | i) Hoisting apparatus   |        |      |
|         | ii) Conveyors   |        |      |
|         | iii) Mobile cranes  |        |      |
| 17. (a) | Explain in detail about the responsibilities of safety officers       | CO1- U | (15) |
|         | Or  |        |      |
| (b)     | Explain about the Hazards during fire and its preventive methods.     | CO1- U | (15) |

