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Question Paper Code: 98164

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

One credit

Civil Engineering

19UCE864 - Construction Safety

(Regulations 2019)

(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 should be spacing of wales for soft soils having a dept more than 2.5m? CO1-U
(a) 1m (b) 1.5m (c) 2m (d) 2.5m
3. Road closing barriers during blasting operation should be provided at least __away when firing is to take place. CO1-U
(a) 400m (b) 350m (c) 450m (d) 500m
4. The overall height of step ladder shall not exceed CO1-U
(a) 6m (b) 5m (c) 6.5m (d) 7m
5. For a height of 6m scaffold what should be the spacing of Horizontal & vertical ties? CO1-U
(a) 10m& 4m (b) 10m & 5m (c) 5m & 10m (d) 4m & 10m
6. The height of stacking of cement bag shall not be more than CO1-U
(a) 10 bags (b) 8 bags (c) 9 bags (d) 12 bags
7. 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 the above

8. _____ is best suited to extinguishing oil or flammable liquid fire. CO1- U
 (a) Soda acid (b) Vaporizing liquid (c) Foam (d) Dry chemical
9. Class-A fire consists of fire due to CO1- U
 (a) Wood (b) Oil (c) Transformer (d) Chemical
10. Workplace health and safety legislation imposes a duty of care on; CO2- U
 (a) the employer (b) the employee
 (c) all participants in the workplace (d) visitors to the workplace

PART – B (5 x 2= 10 Marks)

11. Define Construction Safety. CO1- U
12. What is personal protective equipment? CO1- U
13. Explain the General Safety Precautions In Construction site. CO1- U
14. List out the precautions to be taken before and during excavation. CO1- U
15. Explain Safety Precaution for Scaffold. CO1- U

PART – C (2 x 15= 30 Marks)

16. (a) Discuss in detail about the precautions to be taken for the CO1- U (15)
 following
 i) Hoisting apparatus
 ii) Conveyors
 iii) Mobile cranes
- Or
- (b) Explain about the Hazards during fire and its preventive CO1- U (15)
 methods.
17. (a) Discuss about the safety precautions to be taken for demolition CO1- U (15)
 works.
- Or
- (b) Discuss about any one case study of construction accident with CO1- U (15)
 its Causes and Impact.