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Question Paper Code: 58165

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

One credit Course

Civil Engineering

15UCE865- CONSTRUCTION SAFETY AND MANAGEMENT

(Regulation 2015)

Duration: 1.30 hour

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?
(a) 34° (b) 40° (c) 45° (d) 38°
2. Road closing barriers during blasting operation should be provided at least _____ away when firing is to take place.
(a) 400m (b) 350m (c) 450m (d) 500m
3. The overall height of step ladder shall not exceed
(a) 6m (b) 5m (c) 6.5m (d) 7m
4. For a height of 6m scaffold what should be the spacing of Horizontal & vertical ties?
(a) 10m & 4m (b) 10m & 5m (c) 5m & 10m (d) 4m & 10m
5. The height of stacking of cement bag shall not be more than
(a) 10 bags (b) 8 bags (c) 9 bags (d) 12
6. PDCA stands for
(a) Plan-do-check-act (b) Prepare-do-clean-act
(c) Plan-do-clean-act (d) Prepare-do-check-act

7. A safety management system (SMS) defines:
 - (a) The safety processes and milestones for a development
 - (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
8. Workplace health and safety legislation imposes a duty of care on;
 - (a) the employer
 - (b) the employee
 - (c) all participants in the workplace
 - (d) visitors to the workplace
9. What is the role of the workplace's health and safety representative?
 - (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) 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:
 - (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 = 10 Marks)

11. What Is Personal Protective Equipment?
12. Explain the General Safety Precautions In Construction site.
13. List out the precautions to be taken before and during excavation.
14. Define Safety Audit.
15. What Are The Duties Of A Safety Officer?

PART – C (1x 15 = 15 Marks)

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

Or

(b) Discuss in detail about the precautions to be taken for the following

(i) Hoisting apparatus (4)

(ii) Conveyors (4)

(iii) Mobile cranes (7)

17. (a) Discuss about the safety standards to be maintained in Construction site and International Labour Organization Recommendations (15)

Or

(b) Discuss about any one case study of construction accident with its Causes and Impact. (15)

