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Question Paper Code: 58165

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

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)

- 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
- 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
- The height of stacking of cement bag shall not be more than
(a) 10 bags (b) 8 bags (c) 9 bags (d) 12
- _____ is best suited to extinguishing oil or flammable liquid fire.
(a) Soda acid (b) Vaporizing liquid (c) Foam (d) Dry chemical
- Class-A fire consists of fire due to
(a) Wood (b) Oil (c) Transformer (d) Chemical
- 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

7. 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
8. PDCA stands for
 - (a) Plan-do-check-act
 - (b) Plan-do-clean-act
 - (c) Prepare-do-clean-act
 - (d) Prepare-do-check-act
9. 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
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PART – B (5 x 2 = 10 Marks)

11. List out the precautions to be taken before and during excavation.
12. Explain Safety Precaution for Scaffold.
13. Define Construction Safety.
14. What Are The Duties Of A Safety Officer?
15. List the various laws related to construction industry.

PART – C (2 x 15 = 30 Marks)

16. (a) Explain about the safety precautions to be taken during excavation. (15)

Or

(b) Discuss about the safety precautions to be taken for demolition works. (15)

17. (a) Explain about the Hazards during fire and its preventive methods. (15)

Or

(b) Explain in detail about the Occupational and Safety hazard Assessment. (15)

