# 0712N153

Candidate's	Seat No.	
Canada S	DUGLING.	

PTO

# B.Sc. (F&S) Sem.-3 Examination CC 204

## Safety in Various Industries (New)

Time: 2-00 Hours

December 2021

[Max. Marks: 50

Section – 1 Attempt any three of the following questions. Each question carries 14 marks.

#### Question in section-II is compulsory. Section-I A. Classify the hazardous chemicals/dangerous goods in various categories as per the United Nation Committee of Experts for Transportation of Question-1 dangerous goods. Give suitable examples B. What are Hot Rolling Mill Operations? Describe their main hazards and 7 safety measures A. Describe important precautions required during opening or breaking of 7 any pipeline in a chemical industry. Question-2 B. Write Short note on: 7 a. MOC b. HIRA A. State Safety Philosophy for construction work. Mention important Question-3 7 reasons for poor health and safety implementation at construction site. What safety measures you will suggest improving the conditions? B. What are the important guidelines to be considered while working with 7 various types of ladders? Question-4 A. Give an overview of a Steel Manufacturing industry with important 7 Hazards and their Safety Measures. B. Discuss various categories of Construction machinery. Explain necessary 7 steps to use them safety at construction sites. A. What are the main hazards and safety measures of Moulding and Core Question-5 7 making processes? B. What is foundry? Explain important Health Hazards and their Safety 7 Measures of the iron foundry. Question-6 A. Discuss merit and demerit of the Forging Operations with respect to 7 safety. B. What are the Grinding Machines? Describe their main hazards and precautionary measures. A. What is Material Safety Data Sheet (MSDS)? Briefly explain the type of Question-7 7 information provided by MSDS. B. How safely Temporary Work Platforms are erected? Discuss best 7 practices for the same. A. Describe Safety aspects of transfer of Chemicals by pipelines and also by Question-8 7 different types of containers. B. Define "Hot and Cold processes". What are the important Hazards and 7 Safety Precautions of Hot Work while working with furnaces, kilns and ovens?

## Section-II

### Question-9 MCQ

- 1. If it is decided that a hot work permit is required for a job task, the Hot Work Permit must be obtained by the hot work operator from:
  - a. Safety Manager
  - b. Main Contractor
  - c. Unit Head
  - d. Permit Authorizing Individual
- 2. Suspension ropes of diameter more than 0.75 inch used in Swinging (Hanging) scaffold should withstand how many times the intended load:
  - a. 4 times
  - b. 2 times
  - c. 8 times
  - d. 6 times
- 3. Company and contractor employees are not responsible for reporting any hazards they may observe on the platform to their immediate platform supervisor.
  - a. True
  - b. False
- 4. Nozzle air pressure of compressed air used to blow chips from machine or clothing should be less than:
  - a. 05 psig
  - b. 10 psig
  - c. 15 psig
  - d. 20 psig
- 5. Speed test is performed before installing wheel in grinding machine keeping:
  - a. the same speed as service speed
  - b. 1.5 times of the service speed
  - c. 2.0 times of the service speed
  - d. 2.5 times of the service speed
- 6. Air temperature is required to maintain between 19° to 24°C, RH between 30 to 50% and air velocity air velocity 0.5 m/s in Forging Operations at:
  - a. Near Furnace
  - b. Working Place
  - c. Rest room
  - d. None of the above
- 7. Colour Code for cooling tower Pipelines required as per Indian Standard 2379:
  - a. Sea Green
  - b. Sky blue
  - c. Dark Violet
  - d. Blue

- 8. Which is the Instrument used for measuring the speed of wind:
  - a. Atmometer
  - b. Hygrometer
  - c. Pyrometer
  - d. None of the above