

## BSc F &amp; S (NEP) Semester-2 Examination

DSC\_C-121

Industry &amp; Safety Mgmt

Time : 2-00 Hours]

April-2024

[Max. Marks : 50]

Q-1 (i) What is tempering technology? How was it developed and use for treatment of various diseases? 5

(ii) How was manufacturing of metals invented? How silver or copper were converted into gold? 5

OR

(i) How many varieties of silver are found? Describe them. 5

(ii) How textile technology was developed? Describe briefly the process of dying, washing, sewing and stitching. 5

Q-2 (i) What is concept of safety? "Growing industrialization brought hazards and dangers to its creators." Justify your answer. 5

(ii) Why do we need Safety? Describe those important factors which are impeding safety at management level, worker level and government level. 5

OR

i. How many types of accidents are there? What are the causes of accidents? Describe various types of losses which are occurred due to an accident. 5

ii. What is safety management system? What is the role of industrial safety organization. 5

Q-3 (i) Classify the dangerous goods in various categories with examples. Name the international accepted numbers for identification of material hazards. 5

(ii) Describe various types of electrical protection system. How do they work? Describe benefits of ELCB. 5

OR

(i) What are the important hazards of static electricity? How can these be controlled? 5

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(ii) How many types of ladders are used at construction site? Describe their safety features , design and construction of a ladder. 5

Q-4i. Why are fertilizers important for us? Describe various hazards of a chemical fertilizer. What are the various safety measures needed to protect the health of a worker employed in production of fertilizers? 5

ii. Why does use of cement become essential for growth of the nation? Describe its process in brief. How dust is controlled in a cement industry? 5

OR

(i) What is crude oil? How is it refined and separated in various components? What are the main hazards of this process? 5

(ii) How iron is recovered from its ore? Describe important hazards of blast furnace. 5

Q 5 MCQ [Attempt any 10 out of 12]

10

(i) Textile fibres were classified into ..... categories.

- a. 1
- b. 2
- c. 3
- d. 4

(ii) Embroidery was another technique of ..... designing in ancient India.

- a. Sewing
- b. Textile
- c. Stitching
- d. Weaving

(iii) Modern Assam was very famous for its ..... from very beginning.

- a. Textile
- b. Metallurgy
- c. Refinery
- d. All the above

(iv) The concept of safety is important because it ..... a worker from harm.

- e. Prevents
- f. Helps
- g. Warns
- h. Saves

(v) Example of unsafe act:

- a. Wrong design
- b. No guard system
- c. Poor judgement
- d. Broken rung

(vi) Safety department is an organization headed by a safety executive who is responsible to .....  
a. Head Safety  
b. Vice President  
c. General Manager  
d. Managing Director

(vii) Stairs used for the purpose of construction work should have width of ..... cm:  
a. 40  
b. 60  
c. 80  
d. 120

(viii) Full form of ELCB .....

(ix) Hazchem code of petrol:  
a. 3YE  
b. 3WE  
c. 1SE  
d. 2YE

(x) Which is not the cause of infection due to handling of natural fertilizers:  
a. Q fever  
b. Anthrax  
c. Brucellosis  
d. Irritation of mucous membrane

(xi) Dust generated during clinker grinding is ..... mg/cubic meter:  
a. 260  
b. 180  
c. 40  
d. 384

(xii) What is the source of  $\text{SO}_2$  during hydrocarbon processing?

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