

**BSc F & S (NEP) Semester-2 Examination****DSC\_C-121****Industry & Safety Mgmt****April-2024****Time : 2-00 Hours]****[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

P.T.O.

E 147-2

- (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

E 147-3

- (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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