



NAX-003-047203 Seat No. _____

B. Voc. (Pharm. Analysis & QA) (Sem. II)

(CBCS) Examination

March / April - 2017

BVPAQA - 203 : Industrial Hazards, Safety & GLP

Faculty Code : 003

Subject Code : 047203

Time : 3 Hours]

[Total Marks : 70

Instructions : (1) All questions are compulsory and carry equal marks.

(2) Draw diagram and/or scheme wherever necessary.

1 (A) Answer the following questions : **10**

- (1) Full form of OECD is _____
- (2) Define the term SOP.
- (3) What are different types of inspections carried out by QA personnel?
- (4) Give full form of GMP.
- (5) Yellow and silver color pipelines denote _____ and _____ respectively.
- (6) The full form of MSDS is _____
- (7) What are personal protective equipment?
- (8) What is the importance of industrial safety?
- (9) Who is responsible for appointing study director and QA personnel?
- (10) Give picture presentation for labeling given by NEFA.

(B) Answer the following questions : 20

- (1) Mention objectives of Good Laboratory Practices.
- (2) Draw the symbols for following properties of chemicals :
 - (a) Toxic substance
 - (b) Oxidizing substance
 - (c) Corrosive substance
 - (d) Explosive substance.
- (3) Explain in brief: Need of personal protective equipment in industries.
- (4) Explain in brief any two types of Explosives.
- (5) Give classification of SOPs with examples.
- (6) Explain the need of ventilation.
- (7) Enlist different dangerous properties of hazardous chemicals.
- (8) Enlist different types of Hazards.
- (9) Explain safety measures for storage of hazardous chemicals.
- (10) Write about different characteristics of Explosives.

2 Answer the following questions : (Any **Four**) **20**

- (1) Write a detailed note on 'Color-code for Utilities and supply chain in Chemical Industries'
- (2) Explain in brief: (i) Explosion (ii) Confined explosion (iii) Unconfined explosion.
- (3) Explain any five common causes of industrial fire and explosions in brief.
- (4) How is chlorine stored? Which types of Guideline do we need to follow?
- (5) What is safety audit? Why is Safety Audit needed in industries? How can it be audited?
- (6) Write in brief about labeling of hazardous substance.

3 Answer the following questions : (Any **Four**)

20

- (1) Enlist types of gloves used as PPE, and explain any one type in detail.
- (2) What is MSDS? Explain important parameters of any MSDS.
- (3) Differentiate Hazard and Accident. Explain types of Hazards in chemical industries.
- (4) What is material safety datasheet? Explain in brief any 4 sections of MSDS.
- (5) Give brief account on followings:
 - (a) Equipments for Head protection. (2.5 marks)
 - (b) Equipments for Eye protection. (2.5 marks)
- (6) How the SOP should be written? What are the tips or guidelines to write SOP ?
