

P49/HSC282/EE/20160519

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) Write down the three principle layers of Atmosphere. 5
 - b) Write down the three pre-treatment steps in water purification technology. 5
 - c) Define valves in pharmaceutical pipelines. 5
 - d) What types of air compressors are used in Pharmaceutical MFG? Why? 5
 - e) What is DMAIC in six sigma? 5
2. Solve any **four** sub-questions.
 - a) Why CRC packaging is used? 5
 - b) Classify the course and fine sieve from sieve No.16,20,200 and 120. 5
 - c) What is PAT? 5
 - d) Write down the three colours used for status labeling of material. 5
 - e) Write any four components of SOP. 5

3. Solve any **four** sub-questions.
- a) Write note on Milling. 5
 - b) Write note on Glass container classification. 5
 - c) Write note on Primary Packing Material. 5
 - d) Write note on storage condition. 5
 - e) Write note on SOP. 5
4. Solve any **four** sub-questions.
- a) Write note on Boilers. 5
 - b) What are the different API unit operations, write note on each. 5
 - c) Describe the Pharmaceutical GMP in detail. 5
 - d) Describe Occupational Health Hazards and Safety. 5
 - e) Describe GMP in Pharma Industry. 5

