

M.Sc.(Chem.) Semester - 3 (CBCS) Examination
DEC/JAN. - 2020 - [NEW COURSE]
Pharma Regulatory Affairs(Core (New))

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figure to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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- Q.1 (a) Answer the following question** **4**
- (1) Prepare blank format of SOP, discuss its elements in brief.
- Q.1 (b) Answer any two questions out of three** **10**
- (1) Prepare SOP for Operation and Calibration of Conductivity meter.
- (2) What is SOP? briefly explain about general writing style and importance of SOP.
- Answer the following
- (3) (i) Prepare Specification for AR Grade methanol
(ii) What is Documentation? Enlist most knowns and important QC documents
- Q.2 (a) Answer the following questions** **4**
- (1) Define the term Validation, enlist various validation parameters with passing criteria.
- (2) Briefly differentiate between Calibration and Validation
- Q.2 (b) Answer any two questions out of three** **10**
- (1) Explain calibration of glassware by taking example of 5.0 mL volumetric flask.
- (2) What is calibration? Give brief Outline on Calibration activity.
- (3) Illustrate LOD and LOQ with equation and representative figure.
- Q.3 (a) Answer the following question** **4**
- (1) Classify various instruments by group under qualification
- Q.3 (b) Answer any two questions out of three** **10**
- (1) Give an account of Qualification of Analyst
- (2) What is Instrument Qualification? Enlist phases of qualification and draw qualification chart
- (3) Explain Operational qualification and Performance qualification with suitable example
- Q.4 (a) Answer the following question** **4**
- (1) Explain the following terms in brief (i) Expiry date (ii) Shelf Life
- Q.4 (b) Answer any two questions out of three** **10**
- (1) Give an account of Climatic zones for stability studies.
- (2) What is Short term stability study? Discuss merits and demerits of Short term stability study.
- (3) Explain about packing and container closure system for stability studies.
- Q.5 (a) Answer the following questions** **4**
- (1) What is GLP? List out its major elements
- (2) Draw organogram for Quality Control Department
- Q.5 (b) Answer any two questions out of three** **10**
- (1) Give an account of violation of GLP.
- (2) How will you maintain GLP in Instrument Lab of a Pharma company?
- (3) Discuss requirements of facility and infrastructure as per GLP.
