

Dr. Gupta

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -3 EXAMINATION-May, 2019
BTDD/ M.Tech IV Semester

COURSE CODE: 14M1WBT334

MAX. MARKS: 35

COURSE NAME: QC Analysis and Management

COURSE CREDITS: 03

MAX. TIME: 2 HR

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

- Q1. Discuss role of testing laboratories in ensuring safety of food. What are the analytical challenges related to odor of the food product [COIII][4]
- Q2. Explain the functioning of food regulatory bodies of India and abroad. [COIII][4]
- Q3. Why writing investigation report of quality failure is essential? What are the main components/sections of investigation report? [COIV][4]
- Q4. How process validation is considered as main QA tool. Discuss Validation in contract manufacturing. [COIV][4]
- Q5. What are the tests for quality control of HPLC method? How control charts helps in QC of HPLC methods. ? [COV][4]
- Q6. Answer the followings [COV][2x3 =6]
- A quality control inspector has taken 4 samples with 5 observations each, measuring the volume of potato chips per bag. If the average range for the 4 samples is 0.2 ounces and the average mean of the observations is 12.5 ounces, develop three-sigma control limit for the bottling operation. [For $n=2$, $A_2 = 0.58$]
 - How to set quality culture in an organization.
 - Quality control guidelines related to raw material
- Q7. Briefly explain followings [COIV][3x3=9]
- 7 QC tools
 - Six Sigma approach to problem solving
 - Specific Migration limit and overall migration limit