Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER-7 EXAMINATION – WINTER -2023

**Subject Code: BP706TT** Date: 11/12/2023 **Subject Name: Quality Assurance** Time: 10.30 a.m. to 1.30 p.m. Total Marks: 80 **Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 Define the terms QA, QC and GMP and explain the difference between QA and (a) 06 OC. **(b)** What is TQM? Explain the philosophies of TQM. 05 What is the purpose of ICH guidelines? Write down the process of (c) 05 harmonization. **Q.2** (a) Draw plant layout of Pharmaceutical industry and discuss the design and 06 construction requirements for pharmaceutical manufacturing unit accorging to GMP. Write down elements and registration process of ISO 9000. 05 **(b)** Write a note on personal responsibilities and training. 05 (c) What is QbD? Explain elements of QbD in detail. Q.3 (a) 06 **(b)** Write a note on personnel hygiene and record. 05 Explain in detail on NABL accreditation process. 05 (c) 0.4 Write down the quality control tests for containers. 06 (a) Explain in detail about of utilities and maintenance of sterile areas. 05 **(b)** Write a note on purchase specification and maintenance of store for raw (c) 05 materials. **Q.5** (a) Define GLP. Write a note on GLP requirements for documentation in a non-**06** clinical testing laboratory. Explain disqualification of testing facility in GLP. 05 **(b)** What are complaints? Write a note on evaluation of complaints. 05 What is SOP? Describe the contents of SOP. **O.** 6 06 (a) **(b)** Explain in detail quality review and quality audit. 05 Write a note on analytical method validation parameter. (c) 05

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Define validation and write down different types of validation.

Write a note on secondary packing material.

**Q.7** 

(a)

**(b)** 

(c)

Define calibration. Discuss the qualification of UV-Visible spectrophotometer.

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