

UG-691

BBOTA-11

B.Sc. DEGREE EXAMINATION – JUNE, 2018.

First Year

Allied Chemistry

GENERAL CHEMISTRY

Time : 3 hours

Maximum marks : 75

SECTION A — (3 × 5 = 15 marks)

Answer any THREE questions.

1. What are primary and secondary standards in the volumetric analysis? Given an example for each.
2. Write short note on column chromatography and its applications.
3. What are the difference between homogeneous and heterogeneous catalysis?
4. How carbohydrates are classified?
5. What are the general precautions for avoiding lab accidents?

SECTION B — (4 × 15 = 60 marks)

Answer any FOUR questions.

6. (a) What is rule of eight and Lewis symbols? (8)
(b) Write short notes on Hydrogen bond. (7)
7. (a) What are nucleophiles and electrophiles?
Explain with example. (7)
(b) Write any two reactions of aldehydes. (8)
8. (a) Explain positive and negative catalyst with
suitable example. (7)
(b) Write any two methods of preparation of
polystyrene. (8)
9. (a) What are the uses of Chloramine T and
Iodoform? (8)
(b) Define anaesthetics and antipyretics. (7)
10. Write short notes on
(a) Air Pollution and its method of control. (8)
(b) Radioactive pollution and its method of
prevention. (7)