

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm.D 1st Year EXAMINATION – Summer -2018

Date:30/05/2018

Subject Code:818806

Subject Name: Biology

Time: 10:30 AM TO 01:30 PM

Total Marks: 70

Instructions:

1. Answer any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) Differentiate plants and animals. 06
(b) Draw a labeled typical animal cell. 04
(c) Classify the plant kingdom. What do you mean by non-vascular plants? 04
- Q.2 (a) Define complex plant tissue. Write a note on vascular elements of plant. 06
(b) Define the terms: (i) Leaf (ii) Inflorescence (iii) Placenta (iv) Pollination 04
(c) Explain tuber and offset with suitable examples. 04
- Q.3 (a) Classify modified roots. Explain how roots are modified to store food with suitable examples. 06
(b) Write a brief note on Capitulum and Hypanthodium with suitable examples. 04
(c) Explain the terms: (i) Clestogamy (ii) Xenogamy (iii) Spadix (iv) Umbel 04
- Q.4 (a) Classify the fruits with examples. 06
(b) Explain the terms (i) Testa (ii) Micropyle (iii) Hilum (iv) Raphe 04
(c) Discuss composite fruits in detail. 04
- Q.5 (a) Which are common features of Solanaceae family? Discuss with examples. 06
(b) Give floral description of Leguminosae and Rubiaceae family. 04
(c) Describe general structure of bacteria. 04
- Q.6 (a) Explain reproduction of fungi. 06
(b) List out connective tissues. Write any one in detail. 04
(c) Describe common features of Aves and Pisces. 04
- Q.7 (a) Draw a labeled reproduction system of frog. 06
(b) Write a note on poisonous animals. 04
(c) Give general organization of mammals. 04
