

Lib

[09]

No. of printed pages : 02

SARDAR PATEL UNIVERSITY
B.Sc. (I Semester) (CBCS) EXAMINATION
2010
Thursday, 25th November
11.30 a.m. to 1:30 p.m.
US01EBIO01 : BIOLOGY - ELECTIVE

Total Marks : 70

Note : Answers to all the questions (including multiple choice question) should be written in the provided answer book only.

Q.1 Find the correct answer and write it in the answersheet. [10]

- (1) Which vitamin is fat soluble ?
(a) Vitamin B12 (b) Vitamin C (c) Vitamin D (d) Vitamin H
- (2) Which mineral is required for the formation of thyroid hormones ?
(a) Fluoride (b) Iodine (c) Iron (d) copper
- (3) Group of similar cells to perform a particular functions is called
(a) Organelle (b) tissue (c) Matrix (d) Stomach
- (4) Bee Venom is used in the treatment of
(a) Arthritis (b) Malaria (c) Myopio (d) Cholera
- (5) Snakes are sensitive to
(a) Noises made by birds (c) Thunder
(b) Earth borne vibrations (d) Air borne vibrations
- (6) What is absent in mature sievetubes
(a) Ribosomes (b) Plastids (c) Nucleus (d) All the above
- (7) Which of the following tissue is complex ?
(a) Parenchyma (c) Xylem
(b) Sclerenchyma (d) Collenchyma
- (8) The inflorescence is weak and Pendulous in
(a) Raceme (b) Catkin (c) Umbel (d) Uniperous
- (9) The botanical name of potato is
(a) Allium cepa (c) Solanum tuberosum
(b) Arachis hypogea (d) Brassica rapa
- (10) Teak is obtained from
(a) Dalbergia (c) Cedrus deodara
(b) Shorea robusta (d) Tectona grandis

- Q.2 Answer the following **(Any Ten)** [20]
- (1) Difference between prokaryotic cell and Eukaryotic cell.
 - (2) Mention the different types of simple epithelial tissue and their characteristics.
 - (3) Deficiency of Vitamin C
 - (4) Make a list of five non-poisonous snakes.
 - (5) Make a list of five digging organs which are present in burrowing animals.
 - (6) Explain the Aggressive mimicry.
 - (7) What are the characteristics of parenchyma ?
 - (8) Give any two functions of Endoplasmic reticulum.
 - (9) Define the word 'climber' and give any two examples of climber.
 - (10) Write uses of Jute.
 - (11) Give family, botanical name and uses of 'Tulsi'
 - (12) Write uses of Neem.

Q.3 Write a note on minerals. [10]

OR

- Q.3
- (a) Draw a neat labeled diagram of an animal cell. [05]
 - (b) Vitamin A [05]

Q.4 Describe : Desert adaptation [10]

OR

- Q.4
- (a) Explain the Batesion mimicry [05]
 - (b) Describe :- Primary aquatic adaptation. [05]

Q.5 Draw a neat and labeled diagram of flower and discuss in detail about the parts of flower. [10]

OR

- Q.5 Write notes on
- (a) Meristematic tissue [05]
 - (b) Phyllotaxy [05]

Q.6 Describe the 'Brinjal' in detail. [10]

OR

- Q.6
- (a) Mention botanical name, family and uses of 'Sal'. [05]
 - (b) Describe the 'clove' [05]
