

SARDAR PATEL UNIVERSITY
BSc. (I Semester) (CBCS) Examination
Friday, 22nd April, 2016
2.30 – 4.30 pm
US01EBIO01 – Biology
(Elective Biology)

Total Marks: 70

Note:- Draw neat and labeled diagram wherever necessary.

Q-1 Multiple choice questions (Compulsory)

(10)

- (1) The outer most layer in an animal cell is _____.
 (a) Cell wall (b) Plasma membrane (c) Nuclear membrane (d) Cytoplasm
- (2) The disease Scurvy is caused due to the deficiency of _____.
 (a) Vitamin A (b) Vitamin C (c) Fluoride (d) None of these.
- (3) Which muscle is present in Human Heart?
 (a) Smooth muscle (b) Cardiac muscle (c) Skeletal muscle (d) All of these
- (4) The animal that does not drink water is _____.
 (a) Camel (b) Snake (c) Kangaroo rat (d) Gazelle
- (5) Snakes are sensitive to _____.
 (a) Earth borne vibrations (b) Noises made by birds
 (c) Air borne vibrations (d) Thunder
- (6) _____ is responsible for the growth in length of plant.
 (a) Apical meristem (b) Lateral meristem (c) Both a & b (d) None of these
- (7) The pea plant climb by means of _____.
 (a) Hook (b) Thorn (c) Tendril (d) Stem
- (8) Which of the following is reproductive organ of plant?
 (a) Stem (b) Root (c) Flower (d) Leaf
- (9) Timber is obtained from _____.
 (a) Cotton (b) Teak (c) Sunflower (d) Jute
- (10) Example of pulses is _____.
 (a) Cicer arietinum (b) Oscimum sanctum
 (c) Solanum tuberosum (d) Allium cepa

(P.T.O.)

Q-2 Answer the following (Any Ten) (20)

- (1) Write any two functions of Plasma membrane.
- (2) Write the deficiency diseases of Vitamin D.
- (3) Sketch and label an Areolar tissue.
- (4) Write the main functions of feathers.
- (5) List any four poisonous snakes
- (6) Enlist four gliding flight structures with example.
- (7) Sketch and label the Typical leaf.
- (8) Define climber.
- (9) Define meristematic tissue.
- (10) Write family, Botanical name of Potato.
- (11) Write the Botanical name of any two Cereals.
- (12) Write the uses of Jute.

Q-3 Write a note on Vitamins. (10)

OR

Q-3 Write short notes on:

- (a) The mineral Calcium. (04)
- (b) Types of WBC. (06)

Q-4 What is an adaptation ? Describe Enviromental adaptation of Mimicry. (10)

OR

Q-4 Write notes on

- (a) Morphological characters of snakes. (06)
- (b) Burrowing adaptation. (04)

Q-5 Describe the various parts of flower with neat and labeled diagram. (10)

OR

- Q-5** (a) Sketch and label the plant cell. (05)
(b) Describe Meristematic tissue. (05)

Q-6 Write Botanical name , families and uses of any two oil yielding plants. (10)

OR

Q-6 Write Botanical name, family and uses of Tomato and Cotton. (10)

----- *All the best* -----

