

[12/A-16]

Seat No: _____

No. of Printed Pages: 2

[Eng.]

SARDAR PATEL UNIVERSITY
B.Sc. FIRST SEMESTER (CBCS) EXAMINATION
BIOLOGY- US01EBIO 01

Date - 23/11/2016

Time - 10:00 am to 12:00 pm

Total Marks: 70

Note : Draw neat and labeled diagrams wherever necessary.

Q. 1 MULTIPLE CHOICE QUESTION

(10)

1. Which mineral element is required for the thyroid gland _____.
(a) Sodium (b) Iodine (c) Calcium (d) Zinc
2. Which Vitamin is water soluble?
(a) Vitamin C (b) Vitamin E (c) Vitamin D (d) Vitamin K
3. Cell wall is absent in _____.
(a) Plant cell (b) Animal cell (c) Both a & b (d) None of these
4. Volant means animals are adopted for _____.
(a) Flying (b) Swimming (c) Burrowing (d) None of these
5. Which of the following is a non- poisonous snake?
(a) Cobra (b) Russel's Viper (c) Rat snake (d) Krait
6. Which of the following is reproductive organ of the plant _____.
(a) Stem (b) Root (c) Flower (d) Leaf
7. Group of cells which are similar in origin and to perform a particular function is called _____.
(a) Nucleus (b) Cell (c) Tissue (d) None of these
8. _____ is known as Power House of the cell.
(a) Mitochondria (b) Golgi complex
(c) Lysosome (d) None of these
9. Scientific name of Clove is _____.
(a) *Allium cepa* (b) *Solanum tuberosum*
(c) *Syzygium aromaticum* (d) None of these
10. *Ocimum santum* belongs to _____ family.
(a) Liliaceae (b) Poaceae (c) Lamiaceae (d) Solanaceae

Q.2 Answer the following in brief (Any Ten)

(20)

1. Write any two functions of plasma membrane.
2. Write the name of different types of connective tissue.
3. Write the function of Sodium element.
4. Write name of any four poisonous snakes.
5. What is mimicry?
6. Write the functions of feathers.
7. Define meristematic tissue.
8. Define compound leaf by giving examples.
9. Sketch and label parts of a flower.
10. Write Botanical name and family of Jute.
11. Write the uses of Tulsi.
12. Write Botanical name and family of Sunflower.

Q.3 (a) Describe the sources, importance and deficiency diseases of vitamin C and Iodine .

(06)

(b) Write a short note on erythrocytes.

(04)

OR

Q.3 Explain the mineral elements.

(10)

Q.4 What is an adaptation? Describe environmental adaptations of desert.

(10)

OR

Q.4 Describe economic importance of insects.

(10)

Q. 5 (a) Write a note on sclerenchyma tissue.

(05)

(b) Write a note on parts of a leaf.

(05)

OR

Q. 5 (a) Describe types of phyllotaxy with suitable example.

(06)

(b) Give a note on types of climbers.

(04)

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

(07)

(b) Give Botanical name, family and uses of Wheat.

(03)

OR

Q. 6 (a) Write Botanical name, family and uses of any two vegetables.

(07)

(b) Give Botanical name, family and uses of Cotton.

(03)

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