SARDAR PATEL UNIVERSITY

FIRST YEAR B.SC (1 SEMESTER) EXAMINATION Friday 15th NOVEMBER 2013 2:30 PM - 4.30 PM

US01CBIO 02 (PLANT CYTOLOGY AND TAXONOMY)

| | I Otal Warks: /t |
|---|--|
| Q-1 Multiple choice Questions | (10) |
| Bacterial cell with one flagella is called | |
| (a) Acentric (b) Amphicentric (c) Monoce | entric (d) pericentric |
| 2. Mesomoes are the extention of | Medical processing for the processing of the processi |
| (a) Cell wall (b) Capsule (c) Plasma memb | rane (d) Cytoplasm |
| 3. The Stage in which Cromosomes are arranged or | |
| (a) Prophase (L) Masters | Telophase (d) Anaphase |
| 4. Which of the following are known as Suicidal bag' | |
| (a) Chloroplast (b) Lysosomes (c) Ribosor | mes (d) Mitochondria |
| 5. The function of photosynthesis is carried by | |
| (a) Nucleus (b) Mitochondria (c) Chloropla | ast (d) Ribosomes |
| 6. When all the floral parts arise from above the ovar | |
| (a) Hypogynous (b) Epigynous (c) Perigy | |
| 7. When single leaf arises from each node, phyllotaxy | / is known as |
| (a) Opposite (b) Whorled (c) Alternate 8 Segments of compound leaf are known as | e (d) None of these |
| (a) Bract (b) Leaflet (c) Stipulo | e (d) Bracteole |
| 9. Corolloid roots are present in | |
| (a) Cycas (b) Pinus (c) Sunflower | (d) Cotton |
| 10. Placentation is in family cucurbitaceae | |
| (a) Axile (b) Basal (c) Marginal | (d) Parietal |

Continue ...

| Q-2 | Short Questions (Attempt any ten) | (20) |
|--------|--|--------------|
| | Write a note on Binary fission in Bacteria | |
| | Sketch and label Bacteriophage | |
| | Bacteria is prokaryotic organism give reason. | |
| | Give two functions of chloroplast | |
| | Give the types of Ribosomes | |
| 6 | | |
| | Sketch and label Typical leaf What is Inflorescence? | |
| | What is phyllotaxy? | |
| | D. Write a economic importance of Karela | |
| | Write vegetative reproduction in cycas | 1 |
| | 2. Define the term Monadelphous stamen. | |
| | | |
| O 2 | (a) Describe the ultre atmost use of bacterial call | (00) |
| Q3 | (a) Describe the ultra structure of bacterial cell | (06) |
| | (b) Describe different types of bacteria based on flagella OR | (04) |
| 0 -3 F | Evnlain | |
| Q5 L | | |
| | (a) Properties and structure of virus | (05) |
| | (b) Conjugation in Bacteria | (05) |
| | | |
| Q4 [| Describe the structure and functions of Mitochondria | (10) |
| | OR CONTRACTOR OF THE CONTRACTO | |
| Q4 | (a) Describe the structure of Endoplasmic Reticulum | (06) |
| | (b) Sketch and label plant cell. | (04) |
| | | |
| Q5 | (a) Describe the different types of racemose inflorescence | (06) |
| | (b) What is Aestivation? describe its types | (04) |
| • | OR Standard Standard | |
| | (a) Explain the types of palmate compound leaf | (06) |
| | (b) Explain types of flower based on position of ovary | (04) |
| Q6 | Write general characters of solanaceae family with economic importance | e (10) |
| | | |
| | OR | |
| Q6 | Describe | |
| | (a) Cycas male cone | (05) |
| | (b) Floral characters of cucurbitaceae family | (05) |
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