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SARDAR PATEL UNIVERSITY

B.Sc 1st SEMESTER EXAMINATION

Tuesday, 12th April, 2016

Biology USO1CBIO02

Plant cytology and Taxonomy

Time : 2:30 to 4:30 pm

Total Marks-70

Note: Draw neat and labelled diagram wherever necessary

Q-1 Multiple choice questions

(10)

- (1) TMV was first isolated in crystalline form by
(a) Muller (b) Stanley (c) Mayer (d) Luria
- (2) Bacterial cell wall is made up of
(a) Chitin (b) Lignin (c) Peptidoglycon (d) Pectose
- (3) Type of cell division in somatic cell is
(a) Meiotic (b) Mitotic (c) Both (a) & (b) (d) None of these
- (4) Which one is known as suicidal bags ?
(a) Lysosomes (b) Chloroplast (c) Mitochondria (d) Ribosomes
- (5) Main function of granular endoplasmic reticulum is synthesis of
(a) Carbohydrates (b) Protein (c) Fats (d) Pigments
- (6) Leaf with petiole is called
(a) Sessile (b) Stipulate (c) Petiolate (d) None of these
- (7) Unit of calyx is
(a) Carpel (b) Petal (c) Stamen (d) Sepal
- (8) Stem which remains above the ground in air known as
(a) Aerial (b) Underground (c) Specialised (d) None of these
- (9) Corolloid roots are present in
(a) Pinus (b) Cycas (c) Cotton (d) Sunflower
- (10) Incomplete flowers are found in
(a) Solanaceae (b) Malvaceae (c) Cucurbitaceae (d) None of these

Q-2 Answer the following questions (Any Ten)

(20)

- (1) Write properties of virus
- (2) Sketch and label Bacteriophage
- (3) Write characteristic of Bacteria

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C.P.T.O.)

- (4) Write difference between plant cell and animal cell
- (5) Comment on types of Ribosomes
- (6) Write about Residual lysosomes
- (7) Sketch and label Typical leaf
- (8) What is Opposite phyllotaxy ?
- (9) Define- Válvate aestivation
- (10) Write economic importance of Karela
- (11) Write about Monadelphous stamen
- (12) Define –Bisexual flower
- Q-3 (a) Explain the ultra structure of Bacterial cell (06)
- (b) Write a note on Tobacco mosaic virus (04)

OR

- Q-3 (a) Explain the types of Bacteria based on flagella (05)
- (b) Write a note on lytic cycle of virus (05)
- Q-4 (a) Draw a labelled diagram of Plant cell (05)
- (b) Write structure of Chloroplast (05)

OR

- Q-4 (a) Describe the different stages of Mitosis (07)
- (b) Write functions of Lysosomes (03)
- Q-5 (a) Write note on types of Palmate compound leaf (06)
- (b) Define -(1) Phyllotaxy (04)
- (2) Inflorescence

OR

- Q-5 (a) Describe the types of Pinnate compound leaf (06)
- (b) Define -(1) Raceme (04)
- (2) Hypogynous flower
- Q-6 Write the general characters and economic importance of Malvaceae family (10)

OR

- Q-6 Describe the anatomical features of Cycas leaflet (10)

