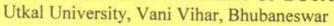
## M. Sc. ENTRANCE EXAMINATION: BOTANY - 2016

POST GRADUATE DEPARTMENT OF BOTANY



## Please Copy the Following things Correctly On the Answer Sheet And Blacken The Corresponding Circle

| Booklet No: BOOKLET SET -   |
|---|
| Full Marks : 100 Time: 1 hour   |
| Name of the Candidate:  |
| Answer Sheet No: Roll No:   |
| Signature of the Candidate  |
| Signature of the Invigilator:   |
| <ol> <li>Instructions to the Candidates         <ol> <li>There are 100 questions. Answer all questions.</li> <li>The questions are of equal value.</li> <li>There is no negative mark for giving wrong answers.</li> <li>The questions from 1 – 80 are of multiple choice type in Section – A. Find out the most appropriate answer out of four choices (A), (B), (C) and (D), given for the respective question and indicate choice by blackening the corresponding circle on the answer sheet.</li> <li>The questions from 80-100 in Section – B are assertion and Reason based, each consist of 2 statements, one printed as Assertion (A) and other as Reason (R) while answering these questions you are to find out a correct answer out of the four given options and indicate your choice by blackening the corresponding circle on the answer sheet.</li> <li>All the correct answers should be blacken in blue/black ball pen only.</li> <li>Space for rough work is given at the end of this booklet</li> </ol> </li> <li>Method of Answering the Question:          <ol> <li>In this test, for each question four suggested answers are given, of which only ONE is correct. You are to find out the correct answer and indicate your choice by blackening the corresponding circle on the answer sheet. For example if for question 1 the correct answer is (B) then blacken as shown below</li> </ol> </li> </ol> |
| Entrance Examination- 2016 (Office Use only)  |
| otal score: (in figure) (in word)   |
| ignature of the Examiner:   |

## SECTION -A

Section A contains 1-80 Multiple Choice Questions (MCQ). You are to find out a correct answer out of the four given options and indicate your choice by blackening the corresponding circle on the answer sheet.

| 1. Which of the following p system can never be inverte | 7. C.   | 8. Which of the following sensitive plant is<br>used as bioindicator of SO <sub>2</sub> pollution? |  |  |
|---|---|--|--|--|
| (A) Pyramid of biomass                                  | u.  | (A) Tulsi  | (B) Kadamba                                |  |
| (B) Pyramid of energy                                   |   | (C) Potato   | (D) Lichen                                 |  |
| (C) Pyramid of number                                   |   | (0)10,000  | <b>C</b>                                   |  |
| (D) All of these  |   |  |  |  |
| (D) All of these  |   | 9. Guttation is loss o   | f water through .                          |  |
| 2. Conversion of nitrate to a                           | mmonia in the                               | (A) Stomata  | (B) Hydathods                              |  |
| nitrogen cycle is called                                | illimonia ili uic                           | (C) Epidermis  | (D) Bark                                   |  |
| (A) Nitrogen fixation (B) N                             | Litrification                               | (C) Epideriiii   | <b>N</b> -7                                |  |
|   | Denitrification                             | 10. Unit to measure water potential is   |  |  |
| (C) Nitrosification (D) I                               | Jenium cation                               | (A) Liter  | (B) Gram                                   |  |
| 3. Which of the following s                             | totoment is not                             | (C) Mega Pascal  | (D) Pound                                  |  |
| correct?  | tatement is not                             | (C) Mega Tasean  | (2)  |  |
| (A) Enzymes act by lowering                             | ag activation                               | 11 Which of the fol  | 11. Which of the following is not a micro- |  |
|   | ig activation                               | nutrient?  |  |  |
| energy  | sectain                                     | (A) Mn   | (B) Cu                                     |  |
| (B) Enzymes are always a p                              |   | (C) K  | (D) Mo                                     |  |
| (C) Enzymes are specific in                             |   | (C) II   | (-)  |  |
| (D) Enzymes act in very sn                              | ian amount                                  | 12 Which of the fol  | lowing microorganism is                    |  |
| 4. Ozone is present in which                            | h lavar of                                  | used in microbial mining   |  |  |
|   | ii iayei oi                                 |  | (B) Thiobacillus sp.                       |  |
| atmosphere  | (B) Stratosphere                            |  | o. (D) Azotobacter sp.                     |  |
| (A) Mesosphere  | (D) Exosphere                               | (C) I seadomondo aj  | (2)111111111111111111111111111111111111    |  |
| (C) Ionosphere  | (D) Exosphere                               | 13. Core element in chlorophyll molecule is  |  |  |
| 5 XXII : 1 - Haring in legent                           | v akaarbad by tha                           | (A) Fe   | (B) Zn                                     |  |
| 5. Which radiation is largel                            | y absorbed by the                           | (C) Mg   | (D) Mn                                     |  |
| ozone layer   | (D) IIV maria                               | (C) IVIS   | (D)  |  |
| (A) Visible rays  | (B) UV rays                                 | 14 Turmeric belong   | gs to the family                           |  |
| (C) X-Rays  | (D) Gamma rays                              | (A) Asteraceae   | (B) Zingiberaecae                          |  |
|   | 1   | (C) Orchidaceae  | (D) Malvaceae                              |  |
|   | one that extends between latitude 0° to 20° |  | (D) Marvaceae                              |  |
| on either side of equator is                            | call as                                     | 15 Dhoenhorous is  | a structural element in                    |  |
| (A) Tropical Zone (B)                                   | Sub-tropical zone                           | (A) Carbohydrate   | (B) Cytochrome                             |  |
| (C) Temperate Zone (D)                                  | Arctic Zone                                 | (C) DNA  | (D) Protein                                |  |
|   | D   | (C) DNA  | (b) Hotelii                                |  |
| 7. Which of the following is a Ramsar site in India     |   | 16 Precence of own   | ostegium is the                            |  |
|   |   | 16. Presence of gynostegium is the characteristic feature of the family                            |  |  |
| (A) Chilka Lake   |   |  | (B) Acantahceae                            |  |
| (B) Vakranangal Dam rese                                | rvoir                                       | (A) Asteraceae   | (D) Asclepiadaceae                         |  |
| (C) Simlipal  |   | (C) Apocyanaceae   | (D) Asciepiadaceae                         |  |
| (D) Eastern Ghats                                       |   |  |  |  |

| 17. The fermentation is.   | on product of the following                                    |   | s can be cut at specific site                    |  |  |
|--|--|---|--|--|--|
|  | (D) Ethel sleekel  | by the enzyme is                        |  |  |  |
| (A) Lactic acid  | (B) Ethyl alcohol  | (A) Polymerase                          |  |  |  |
| (C) Butanol  | (D) All of these   | (B) Ligase<br>(C) Helicase              |  |  |  |
| 10 D ' ' O   |  |   |  |  |  |
|  | otient (R.Q) is more than                                      | (D) Restriction end                     | ionuclease                                       |  |  |
| one in case of   |  | 26 1171 1 64 6                          | 11   |  |  |
| (A) Glucose  | (B) Fat  |   | ollowing can be gene                             |  |  |
| (C) Organic acid   | (D) Protein  | vector?                                 |  |  |  |
| 10.01  |  | (A) Plasmid<br>(D) Phagemid             | (B) Cosmid                                       |  |  |
|  | 19. Photosyntheically Active Radiation (PAR)                   |   | (D) All of these                                 |  |  |
| is between   |  | 22 50 700 727001                        |  |  |  |
| (A) 200 - 400nm  | (B) 400 - 700nm  | <ol><li>Southern blotti</li></ol>       |  |  |  |
| (C) 600 -700nm   | (D) 680 - 750nm  | (A) DNA-DNA hybridization               |  |  |  |
| 900 W 100 W 10 W 10 W 10 W 10 W 10 W 10  |  | (B) RNA- DNA hybridization              |  |  |  |
| 20. What is the era  | 3 * 2 * C * C * C * C * C * C * C * C * C                      | (C) Somatic hybrid                      |  |  |  |
| (A) Cenozoic   | (B) Mesozoic   | (D) RNA-RNA hy                          | bridization                                      |  |  |
| (C) Paleozoic  | (D) None of the above  |   |  |  |  |
|  |  | 28. Which cell is for                   | ound towards chalazal end                        |  |  |
| 21. Which of the fo  | llowing is the largest   | in a normal embryo                      | o sac?   |  |  |
| botanical garden of  | the world?   | (A) Egg cell                            | (B) Sygergid                                     |  |  |
| (A) Botanical Gard   | en at Pisa, Italy  | (C) Antipodal                           | (D) Central cell                                 |  |  |
| (B) Botanical Garde  | en of Strasbourg, France                                       |   |  |  |  |
| (C) Royal Botanica   | l Garden, Kew, England   | 29. Which algae is commercially used as |  |  |  |
| (D) New York Bota  | nical Garden, America  | single cell protein?                    |  |  |  |
| (2)  |  | (A) Chlorella vulgaris                  |  |  |  |
| 22. Photorespiration   | n involves the organelles                                      | (B) Microcysytis auroginosa             |  |  |  |
|  | doplasmic reticulum &  | (C) Spirullina platensis                |  |  |  |
| Mitochondria   | <i>₫</i> 2   | (D) Scenedesmus dimorphus               |  |  |  |
| (B) Chloroplast, Go  | lgi Bodies & Peroxisome  |   | 1  |  |  |
|  | roxisome & Mitochondria  | 30. Causative agen                      | t of late blight of potato is                    |  |  |
|  | sosome & mitochondria  | (A) Xanthomonas                         |  |  |  |
| (-)  |  | (B) Pytopthora infestans                |  |  |  |
| 23. Morphine is an   | important alkaloid   | (C) Alternaria solani                   |  |  |  |
| obtained from  | [  |   | (D)Puccinia graminis                             |  |  |
| (A) Saraca indica  |  | (12)1 Heelina grami                     | *****  |  |  |
| 100 to 10 | nomica   | 31 Agranal bundl                        | e sheath chloroplast is                          |  |  |
| (B) Strychnos nux-vomica<br>(C) Papaver somniferum   |  | found in                                | e sileatii emoropiast is                         |  |  |
| (D) Rawolfia serper  |  | (A) Mushroom                            | (B) Moss   |  |  |
| (D) Kawoijia serper  | urre   | (C) Mango                               | (D) Maize  |  |  |
| 24 Which of the fo   | llowing bosterio is used in                                    | (C) Mango                               | (D) Maize  |  |  |
|  | Which of the following bacteria is used in                     |   | 32. Reserve food material of brown algae is      |  |  |
| genetic engineering of plants contains t <sub>i</sub>  |  |   | - 19 19 - 19 19 19 19 19 19 19 19 19 19 19 19 19 |  |  |
| plasmid?   |  | (A) Fucoxanthin                         | (B) Volutin                                      |  |  |
| (A) Escherichia col  |  | (C) Laminarin                           | (D) Glycogen                                     |  |  |
| (B) Agrobacterium  | 1000 D.C. ( 2000 D.C. ( C. | 22 01                                   | attended to the second                           |  |  |
| (C) Salmonella typh  |  | 33. Sexual reproduction is absent in    |  |  |  |
| (D) Pseudomonas p  | unda   | (A) Nostoc                              | (B) Ulothrix                                     |  |  |
|  |  | (C) Spirogyra                           | (D) Chara  |  |  |

|   | 34. Fungi causing ha               | air loss are   | 46. A living fossil is                                 |  |
|---|------------------------------------|--|--|--|
|   | (A) Keratophilous                  | (B) Pyrophilous  | (A) Rhynia   | (B) Ginkgo   |
|   | (C) Coprophilous                   | (D) None   | (C) Gnetum   | (D) Pinus  |
| 35. Association of algae and fungi in lichen is |                                    | 47. Coralloid roots of   | of Cycas are   |  |
|   | an example of                      | Section of the sectio | (A) Apogeotropic                                       | (B) Aerial   |
|   | (A) Helotism                       | (B) Parasitism   | (C) Phototropic  | (D) Positively Geotropic                                 |
|   | (C)Symbiosis                       | (D) Protocooperation   |  | Village of Marky April 12 of the West Control of Control |
|   | 8804 C004058 0 0 00                |  |  | used as mounting material                                |
|   | <ol><li>White rust fungu</li></ol> |  | comes from   |  |
|   | (A) Rhizopus                       | (B) Albugo   | (A) Cycas  | (B) Abies  |
|   | (A) Pythium                        | (D) Ustilago   | (C) Pinus  | (D) Gnetum   |
|   | 37. Heteromorphic a                | alternation of generation is   | 49. System of  | classification proposed by                               |
|   | noticed in                         | The Tellingson of the  | Linnaeus is  |  |
|   | (A) Bryophyte                      | (B) Gymnosperm   | (A) Artificial   | (B) Natural  |
|   | (C) Angiosperm                     | (D) None   | (C) Phylogenetic                                       | (D) Modern   |
|   | 38. The bryophyte to               | o indicate lime in soil is   | 50. F factor in bacter                                 | ria is present in  |
|   | (A) Bryum                          | (B) Tortella   | (A) Genophore  | (B) Mesosome   |
|   | (C) Riccia                         | (D) Marchantia   | (C) Plasmid  | (D) Membrane   |
|   | 20 Middle steelless                | 1:   | 61 4 6 1   |  |
|   |                                    | art of moss capsule is   | 51. A group of plants with similar characteristic      |  |
|   | (A) Calyptra                       | (B) Operculum  | of any rank is known as                                |  |
|   | (C) Annulus                        | (D) Columella  | (A) Family<br>(C) Taxon                                | (B) Genus<br>(D) Species                                 |
|   | 40. Embryo develop                 |  |  |  |
|   | (A) Meroblastic                    | (B) Coeloblastic   | 52. Mycorhhiza is an                                   | n example of   |
|   | (C) Holoblastic                    | (D) Metablastic  | (A) Decomposers  | (B) Ectoparasitism                                       |
|   |                                    |  | (C) Endoparasitism                                     | (D) Symbiotic relationship                               |
|   | 41. Tallest moss in t              | he world is  |  |  |
|   | (A) Dawsonia                       | (B) Pogonatum  | <ol><li>The substrate for</li></ol>                    | photorespiration is                                      |
|   | (C) Funaria                        | (D) Anthoceros   | <ul><li>(A) Glyoxylate</li><li>(C) Glycolate</li></ul> | (B) Aspartate<br>(D) Glutamate                           |
|   | 42. Nutrition in fern              | prothallus is  | (C) diyeolate  | (D) Glutalilate  |
|   | (A) Parasitic                      | (B) Saprophytic  | 54 In photogypthesi                                    | s, release of oxygen is due to                           |
|   | (C) Photosynthetic                 | (D) Epiphytic  | (A) Photolysis   | (B) Red drop   |
|   | (C) I notosynthetic                | (D) Epiphytic  | (C) Photophosphory                                     |  |
|   | 43. Meiosis occurs i               | n fern before the formation of   | (c) i notophosphory                                    | (b) carooxylation  |
|   | (A) Gametes                        | (B) Protonema  | 55. Ascent of soil v                                   | vater and nutrient to plants is                          |
|   | (C) Spores                         | (D) Prothallus   | due to   | rate and married to prairie is                           |
|   | (C) operes                         | (5) 11011111111  | (A) Transpiration                                      | (B) Cohesion   |
|   | 44. Dioecious protha               | allus is found in  | (C) Adhesion   | (D) All of the above                                     |
|   | (A) Pteridium                      | (B) Marsilea   | (C) Hanesion   | (D) All of the above                                     |
|   | (C) Osmunda                        | (D) Lycopodium   | 56. As compared t                                      | o anaerobic respiration, the                             |
|   | (2) Samurau                        | (2) Lycopoulum   |  | ng aerobic respiration is                                |
|   | 45. Little club or spi             | ke moss'refers to  | (A) 8 times  | (B) 12 times   |
|   | (A) Selaginella                    | (B) Dryopteris   | (C)18 times  | (D) 36 times   |
|   | (C) Equisetum                      | (D) Lycopodium   | (C)10 times  | (D) 50 times   |
|   | (C) Equiscium                      | (D) D) copouluit   |  |  |

- 57. Mycoplasma (PPLO)
- (A) Lacks cell wall
- (B) Lacks cDNA
- (C) Lacks cell membrane
- (D) Possess mitochondria
- 58. When green algae is illuminated, motile aerobic bacteria accumulate near them. The reason is
- (A) Light
- (B) Oxygen
- (C) Algae
- (D) CO<sub>2</sub>
- 59. Hormone found in liquid endosperm of coconut is
- (A) Gibberellin
- (B) Auxin
- (C) Ethylene
- (D) Cytokinin
- 60. Phytotron is a device by which
- (A) Mutations are produced in plants
- (B) Plants are grown with controlled nutrients
- (C) Electrons are bombarded
- (D) Controlled plant growth chamber
- 61. LSD stands for
- (A) Lactic acid Diethylamide
- (B) Lysergic acid Diethylamide
- (C) Lysine Diethylamide
- (D) Lysergic acid Dimethylamide
- 62. Cell 'A' with Osmotic Pressure (O.P.) =10 atm and Turgor pressure (T.P.) =6 atm is in contact with cell 'B' having O.P.=13 atm and T.P.-12 atm. The flow of water will be
- (A) From A to B
- (B) Equal flow
- (C) From B to A
- (D) No flow
- 63. Which of the following is major source of water for plants
- (A) Capillary water
- (B) Hygroscopic water
- (C) Gravitational water
- (D) Rain water
- 64. If a cell is kept in a hypotonic solution, then
- (A) Exosmosis & T.P. decreases
- (B) Endosmosis & T.P. increases
- (C) Exosmosis & W.P. decreases
- (D) Endosmosis & O.P. increases

- 65. How many turns of Calvin Cycle yields 1 molecule of glucose
- (A)4

(B) 6

(C) 8

- (D) 2
- 66. How many ATP & NADPH2 are required to produce 1 molecule of glucose through C cycle
- (A) 12 ATP, 12 NADPH + H
- (B) 12 ATP, 18 NADPH + H<sup>+</sup>
- (C) 18 ATP, 6 NADPH + H+
- (D)18ATP, 12 NADPH+ H+
- 67. A cotton fibre absorbs water through
- (A) Diffusion
- (B) Osmosis
- (C) Capillary force
- (D) Imbibition
- 68. The rosette habit of the cabbage plant can b changed drastically by the application of
- (A) IAA
- (B) GA<sub>3</sub>
- (C) IBA
- (D) ABA
- 69. Which of the following fungus is associate with the discovery of gibberellins?
- (A) Puccinia graminis
- (B) Albugo candida
- (C) Gibberella fujikouri
- (D) Fusarium longipes
- 70. Chaperones and chaperonins are
- (A) Stress proteins
- (B) Lipoproteins
- (C) Phspholipids
- (D) Spingolipids
- 71. At what stage of meiosis, the centrome splits so that chromatids of the same chromoson are completely separated from one another?
- (A) Metaphase I
- (B) Anaphase I
- (C) Anaphase II
- (D) Telophase II
- 72. In a plant, the dominant gene A is responsible for petal color in the presence of another gene which complements the expression of A. Whi among the following genotypes shall produ white flowers?
- (A) AAbb
- (B) AaBb
- (C) AABb
- (D) AABB

- 73. Degeneracy of genetic code means:
- (A) A given amino acid is always coded by the same triplet
- (B) A given triplet may code for different amino acid
- (C) Some triplets do not code for any amino acid (D)Some amino acids are coded for by more than
- one triplet
- 74. If the nucleotide sequence of a given length of the transcribing strand of DNA is ATCCGTCGAC which of the following will be the sequence of the corresponding messenger RNA product?
- (A) TAGGCAGCTG
- (B) ATCCGTCGAC
- (C) UAGGCAGCUG
- (D) TUGGCUGCTG
- 75. Which one of the following techniques uses restriction endonucleases?
- (A) SSR
- (B) RFLP
- (C) RAPD
- (D) ISSR
- 76. TATA BOX is associated with:
- (A) Transcription
- (B) Translation
- (C) Reverse Transcription
- (D) DNA replication

- 77. Which one of the following is not a chromosomal aberration?
- (A) Translocation
- (B) Transduction
- (C) Deletion
- (D) Inversion
- 78. If a DNA strand has a nitrogenous base sequence CCCGAT, what is the sequence of the complementary RNA strand?
- (A) GGGCTA
- (B) GGGCUA
- (C) GGGCAU
- (D) GGGCUU
- 79. A plant which has been regenerated following protoplast fusion and contains a combination of cytoplasm of both parents but the nucleus of only parent is called
- (A) Cybrid
- (B) Sexual hybrid
- (C) Somatic hybrid
- (D) Chimaera
- 80. Nucleosome is composed of 4 pairs of proteins namely
- (A) H2A, H2B, H3, H4
- (B) H1, H2, H3A, H3B
- (C) H1, H3, H4A, H4B
- (D) H2A, H2B, H4A, H4B

## **SECTION - B**

Section B contains 81-100 questions, each consist of 2 statements, one printed as Assertion (A) and other as Reason (R) while answering these questions you are to find out a correct answer out of the four given options and indicate your choice by blackening the corresponding circle on the answer sheet.

| (A) If<br>(B) If | both A | A & R tru<br>A & R tru | ne and R is the correct explanation of A ne and R is n't the correct explanation of A | (C) If A is true and R is false (D) If A & R are false |  |
|------------------|--------|------------------------|---|--|--|
| 81.              | Α      |                        | Oxygen is Hill's oxidant  |  |  |
| 01.              | R      | 72                     | Oxygen during photosynthesis is liberated   | from CO <sub>2</sub>                                   |  |
|                  |        |                        |   | -lation  |  |
| 82.              | A      | -                      | DCMU inhibits non-cyclic photophosphor  | ylation<br>- NADD                                      |  |
|                  | R      | 50                     | It checks the flow of electrons from water  | to NADP  |  |
| 83.              | Α      | 20                     | Viruses are obligate parasites  |  |  |
| 10000000         | R      | =                      | Virus which attacks bacteria is bacteriopha   | age  |  |
| 84.              | A      | 8                      | Transduction is transfer of DNA from one bacteriophage                                | bacterium to another with the help of                  |  |
|                  | R      | ů.                     | Bacteria are eukaryotes   |  |  |
| 85.              | Α      | _                      | Antibiotics are two types on the basis of a   | ction  |  |
| 0.5.             | R      | 2                      | Bacteriostatic antibiotics prepared from fu   | ngal wall  |  |
| 0.0              | 4      |                        | Most of the mycelial bacteria reproduce by  | v conidia  |  |
| 86.              | A      | 22                     | Conidia are present on conidiophores  |  |  |
|                  | R      | (T                     | Conidia are present on condicionos  | *  |  |
|                  |        |                        |   |  |  |
| 87:              | A      |                        | If a plant has 42 chromosomes then its pol  | llen grains have 21 chromosomes                        |  |
|                  | R      | 200                    | Gamets are produced by meiosis  |  |  |
| 88.              | A      | -                      | Adenine cann't pair with cytosine.  |  |  |
| 200              | R      |                        | Because this type of pairing is n't genetica  | ally fixed   |  |
| 89.              | Α      | -                      | Lysosomes are suicidal bags   |  |  |
| 0).              | R      |                        | Peroxisome helps in photorespiration  |  |  |
|                  | K      |                        | 1 crombonic marps an pro-   |  |  |
| 90.              | A      | -                      | Proteins are polyamides   |  |  |
|                  | R      | •                      | Nucleic acids are polymer of nucleotides  |  |  |
| 91.              | Α      | _                      | Sago is obtained from stem pith of Cycas  | revoluta   |  |
| 2.44             | R      | -                      | Cycas revolute is a living fossil   |  |  |
|                  |        |                        |   |  |  |
| 92.              | A      | 1976                   | Cuscuta is a total obligate stem parasite   | 1 2 1  |  |
|                  | R      |                        | Obligate parasite obtain their entire food  | supply from host                                       |  |

(C) If A is true and R is false

Section B contains 81-100 questions, each consist of 2 statements, one printed as Assertion (A) and other as Reason (R) while answering these questions you are to find out a correct answer out of the four given options and indicate your choice by blackening the corresponding circle on the answer sheet.

| 0.0000000000000000000000000000000000000 |   |      | rue and R is the correct explanation of A rue and R is n't the correct explanation of A | <ul><li>(C) If A is true and R is fals</li><li>(D) If A &amp; R are false</li></ul>  |
|---|---|------|---|--|
| 88 85<br>68 80                          |   |      | 2.  |  |
| 93.                                     | Α | -    | Pitcher is an insectivorous plant   |  |
|   | R | -    | Insectivorous plant consume insects for nit   | trogen   |
| 94.                                     | Α |      | Occurrence of two different types of leaves   | s on the same plant is called  |
|   | R | -    | Heterophylly is observed in mango plant   |  |
| 95.                                     | Α |      | Acetyl Co A links between glycolysis and  | Krebs' cycle   |
|   | R | (4)  | Acetyl Co A is involved in aerobic respirat   | Of the state of th |
| 96.                                     | Α | -    | C <sub>4</sub> plants are insensitive to photorespiration                               | n  |
|   | R | 4    | Kranz anatomy helps to prevent photoresp  |  |
| 97.                                     | Α | (14) | Guard cells in stomata contain chloroplast  |  |
|   | R | -    | Guard cells are autotrophic in nature   |  |
| 98.                                     | Α | 12   | Totipotency is observed in plant cell   |  |
|   | R | -    | IBA is a type of cytokinin  |  |
| 99.                                     | Α | -    | Protoplast is plant cell without cell wall  |  |
|   | R | (*)  | Lister form bacteria are cell wall deficient  | form ·   |
| 100.                                    | Α |      | Movement of ions is termed as flux  |  |

The movement of ions into the cell is known as influx

R