



## BIOLOGY

# BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

## NEET BASED QUESTIONS

### Multiple Choice Questions

1. The plant of Cycas, which belongs to sporophytic generation, is differentiated into :

A. Root, stem and leaves

B. Male and female cones

C. Leaves only

D. Sometimes leaves and sometimes  
modified stems

**Answer: A**



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2. Which of the following cell organelles produces lysosomes?

A. ER

B. Peroxisomes

C. Golgi apparatus

D. None of these

**Answer: C**



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3. Epidermis and Epibelema are produced from:

A. Phellogen

B. Protoderm

C. Procambium

D. Calyptrogen

**Answer: B**



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4. Which of the following is the characteristic of water storage tissue in xerophytes?

A. Presence of large sized cells

B. Presence of thin cell walls

C. Presence of mucilage

D. Presence of vacuole

**Answer: B**



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5. What happens if lactose is present?

A. The repressor becomes able to bind to the operator

B. Transcription of lac-y, lac-z, and lac -a genes occurs

C. The repressor becomes unable to bind to the operator

D. Both (B) and (C)

**Answer: D**



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6. Which of the following organelles is usually absent in chloroplast of algae ?

- A. Lamellae
- B. Grana
- C. Pigments
- D. Quantasomes

**Answer: B**



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7. A biogenesis theory states that?

A. Life originated due to spontaneous generation

B. Origin of the life is due to preexisting organisms

C. Origin of the life occurred from blue-green algae like microorganisms

D. Origin of the life is due to organic evolution owing to chemical reactions in



presence of light

**Answer: A**



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**8.** Which of the process (es) is / are referred to as translation ?

A. Decoding of the triplet condos of mRNA

by the tRNA

B. Decoding of amino acids to proteins

C. Decoding of the triplet codons by the

tRNA mRNA

D. All of above

**Answer: A**



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**9.** Leafless stem of onion which is produced to bear flowers is called:

A. Scape

B. Torus

C. Thalamus

D. Pedicel

**Answer: A**



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**10.** Feathery stigma and versatile anthers are found in :

A. Compositae

B. Graminae

C. Legeuminosae

D. All of above

**Answer: B**



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**11. Genotoxicity refers and versatile anthers are found in :**

A. Vitamins

B. Enzymes

C. DNAs

D. protiens

**Answer: C**



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**12.** Which one of the following families is commonly known as night -shade -family ?

A. Compositae

B. Malvaceae

C. Both (A) and (B)

D. Solanaceae

**Answer: D**



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**13.** The phospholipids are broken down to their residues by the action of enzymes called:

A. Triose phosphate isomerase

B. Cytochrome oxidase

C. Peroxidase

D. Malic dehydrogenase

**Answer: A**



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**14.** E.coli have the full complement of enzymes for the glyoxylate and citric acid cycles in the :

A. Mesosomes

B. Mitochondira

C. Cytosol

D. Polysomes

**Answer: C**



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**15.** At what phase of meiosis are there two cells, each with separated sister chromatids that have been moved to opposite spindle poles ?



A. Anaphase -I

B. Anaphase -II

C. Metaphase-I

D. Metaphase\_II

**Answer: B**



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**16.** Plants that retain their evergreen foliage throughout evergreen foliage throughout the year are called :

A. Draught escaping plants

B. Evergreen plants

C. Xerophytic plants

D. All of above

**Answer: B**



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**17. The term "allelomorphic" means:**

A. Sex linked characters

B. Sex determining chromosomes

C. A pair of contrasting characters

D. Representatives of the same gene locus

**Answer: C**



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**18.** The microbial metabolites released or excreted by lysed cell which in very low concentration directly toxic to cells of susceptible is defined as:

A. Susceptibility

B. Pathogen

C. Detoxification

D. Toxin

**Answer: D**



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**19.** The soil characteristic that determine ease of moving water into the soil is referred to as :

A. Soil water

B. Soil permeability

C. Soil temperature

D. porosity

**Answer: B**



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**20. Mycorrhiza establishes symbiosis between**

**:**

A. Fungi and bryophytes

B. Phaeophyceae and rhodophyceae

C. Fungi and algae

D. None of the above

**Answer: D**



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**21.** The ovule is attached to the ovary wall by a stalk called \_\_\_\_\_.

A. Funiculus

B. Nucellus

C. Raphe

D. Hilum

**Answer: A**



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**22.** When two nuclei lie side by side after plasmogamy, this stage is termed as :

A. Haplophase

B. Karyogamy

C. Dikaryophase

D. Syngamy

**Answer: C**



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**23.** Besides their utility as simple fuels , fossil fuels also give rise to by - products such as :



A. Certain synthetic chemicals

B. Drugs

C. Plastic

D. All of above

**Answer: D**



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**24.** Consider the following fruits ,which of these are berries:

1Apricot

2 Guava

3 Tomato

4 papaya

A. A and 3

B. 2, 3 and 4

C. 1,3 and 4

D. 1,2 ,3 and 4

**Answer: B**



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25. Which of the following plants is / are more efficient at photosynthesis in hot, dry conditions ?

A. C3 plants

B. C4 plants

C. Both (A) and (B)

D. Xerophytes

**Answer: B**



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26. What is the source of energy that flows through the living world?

A. Sun

B. Green plants

C. photosynthesis

D. Chemical bonds

**Answer: A**



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27. An accumulation of CO<sub>2</sub>, ozone and other pollution - related gases in the lower atmosphere, trapping heat near the earth's surface leading to global warming is known as :

A. Green house effects

B. Biomass

C. Energy pyramid

D. Autecology

**Answer: A**





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28. In protein synthesis of prokaryotes , the initiation of polypeptide chain is infuced by :

- A. Lysine
- B. Sesine
- C. Leucine
- D. Methionine

**Answer: D**



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29. How many carbon atoms (C-atoms) are there in a molecule of ribulose biphosphate (RuBP) ?

A. Two

B. Three

C. Four

D. Five

**Answer: D**



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30. POP is abbreviated for :

- A. Pak occupied people
- B. Persistent organic pollutant
- C. Plant organising principle
- D. Plant of pacific province

**Answer: B**



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31. which at the following phenomens is a associated with the burning of fossil fuel?

- A. Acid rain
- B. Green house effects
- C. Both (A) and (B)
- D. None of these

**Answer: C**



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32. Haploid plants can be obtained by culturing:

- A. Pollen grain
- B. Endosperm
- C. Root apices
- D. None of these

**Answer: A**



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**33.** During the fermentations of grapes for wine preparation ,a reddish brown crystalline mass of acid potassium salt is obtained, which is known as:

A. Rochelle salt

B. Argol

C. Pyruvic

D. Glyceraldehyde

**Answer: B**



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34. Members of a biological species are potentially able to :

A. Express all the same genes

B. Introgress

C. Compete

D. Interbreed

**Answer: D**



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**35.** Which of the following is the earliest land plant?

A. Rhynia

B. Cordaites

C. Riccia

D. Pinus

**Answer: A**



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**36.** Exergonic reactions are usually:

- A. Exothermic
- B. Endothermic
- C. Both of the above
- D. Neither of the above

**Answer: A**



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37. A measure of the frequency of crossing - over between two linked chromosome marker loci in recombining meiotic product is called :

- A. Map distance
- B. Loop distance
- C. Chromosomal aberration
- D. Chromosome distance

**Answer: A**



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**38.** In the phosphorus cycle weathering makes phosphate available first to :

- A. Producers
- B. Consumers
- C. Tertiary consumers
- D. Decomposers

**Answer: A**



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**39.** The shape of polypeptide is :

A. Important to its function

B. Dependent upon the primary structure

C. Maintained by bounding between parts  
of the polypeptide

D. All of these

**Answer: D**



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40. In a certain dicotyledonous stem, the fascicular cambium is a meristematic tissue referred to as :

- A. Apical
- B. Intercalary
- C. Lateral
- D. Secondary

**Answer: C**



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**41.** Nucleous of the cell is a special region of chromatin where :

A. m-RNA is produced

B. t-RNA is produced

C. r-RNA is produced

D. All the the above are produced

**Answer: C**



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42. Which of the following plants is is commonly called 'royal fern'?

A. *Campyloneurum scolopendrium*

B. *Adiantum pedatum*

C. Both (A) and (B)

D. *Osmunda regalis*

**Answer: D**



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**43.** The most important feature of all living system from the viewpoint of the their continuity is their capacity to:

- A. Utilize oxygen to generate energy
- B. Utilize solar energy for metabolic activities
- C. Replicate the genetic information
- D. Produce gametes

**Answer: C**





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44. The C<sub>4</sub> molecules , formed after the CO<sub>2</sub> fixation by CAM plants , are stored in :

- A. Vacuoles of mesophyll cells
- B. Cortex
- C. Endodermal casparian stripe
- D. All of these

**Answer: A**



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45. Transcription requires :

- A. Enzymes RNA polymerase
- B. Ribonucleoside triphosphate
- C. DNA template
- D. All of above

**Answer: D**



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**46.** Plasmids that can intergate into the bacterial DNA are called :

A. Plasmogenes

B. Neurogences

C. Episomes

D. Hydrogenes

**Answer: D**



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47. Which of the following associations fixes nitrogen through non-nodulation?

A. Roots of maize associated with *Spirillum notatum*

B. Coralloid root of *Cycas* in association with *Anabaena*

C. *Digitaria* in association with *Spirillum notatum*

D. All of these

**Answer: A**



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**48.** Which of the following is an artificial ecosystem?

A. Grassland

B. Rice field

C. Lake

D. Forest

**Answer: B**



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**49.** Which of the following insectivorous plants are partial stem parasite?

- A. *Viscum album*
- B. *Santalum album*
- C. Both (A) and (B)
- D. *Botrychium*

**Answer: A**



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**50. Edible part of pomegranate is :**

- A. Fleshy thalamus
- B. Fleshy arill
- C. Succulent testa
- D. Accrescent sepals

**Answer: B**



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51. With which of the following Tissue / cells companion cells are associated

A. Collenchyma

B. Medullary parenchyma

C. Sieve tube

D. None of these

**Answer: C**



52. In order trees , the inner annual rings are called :

- A. Heartwood
- B. Sapwood
- C. Phloem
- D. Dermatogen

**Answer: A**



**53.** Soil showing permanently wilted plants has:

- A. Capillary water
- B. Hygroscopic water
- C. Gravitational water
- D. Ground nut

**Answer: A**



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54. Parasitic fungi take their nutrition from their host with the help of :

A. Paraphyses

B. Haustoria

C. Soredia

D. None of these

**Answer: B**



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55. In which of the following plant groups, the root is feebly developed and stem is soft with a large number of air cavities?

- A. Xerophytes
- B. Hydrophytes
- C. Mesophytes
- D. Helophytes

**Answer: B**



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**56.** Root apical meristem cells are distinct from other root cells, because of their:

- A. Thick cell walls
- B. Tripolar nuclei
- C. Enlarged water vacuoles
- D. Smaller size

**Answer: D**



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57. Protein that form chromatin with DNA is :

A. Mysoin

B. Actin

C. Troponin

D. Histone

**Answer: D**



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**58.** Ethnobotany is a branch of botanical science which deals with the study of :

A. Shrubs and trees

B. Plants used by people , particularly by primitive people

C. Plants of economic

D. All of these

**Answer: B**



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**59.** Those plants which grow luxuriantly in rainy season and shed all the leaves in summer are called :

- A. Xerophytes
- B. Lianus
- C. Trophophytes
- D. None of these

**Answer: C**



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60. SCP' standard for:

- A. Single cell protein
- B. Special cell protein
- C. Sweetener cell protein
- D. Special cell for photosynthesis

**Answer: A**



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61. The transition between meiosis - I and meiosis-II is known as:

A. Interphase

B. Cell cycle

C. Interkinesis

D. Cytokinesis

**Answer: C**



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62. Epitherm tissue is associated with :

A. Guttation

B. Photorespiration

C. Exuadation

D. None of these

**Answer: A**



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**63.** The exchange of genetic material between nonsister chromatids of a bivalent during meiosis -I is known as:

- A. Diakinesis
- B. Hybridization
- C. Both (A) and (B)
- D. Crossing - over

**Answer: D**



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**64.** Entrophy is a state or condition of :

A. Energy

B. Matter

C. Both (A) and (B)

D. None of these

**Answer: C**



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65. Mushroom are palced in divison:

- A. Ascomycota
- B. Deuteromycota
- C. Basidiomycota
- D. Zygomycota

**Answer: C**



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**66.** Flavoproteins contain flavin nucleotide, which is /are :

A. FMN

B. FAD

C. Both (A) and (B)

D. None of these

**Answer: C**



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67. The term meiosis -I and meiosis- II Were used by:

A. Flemming

B. Strasburger

C. Gregoire

D. Mendel

**Answer: C**



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**68.** Laticiferous vessels are found in :

A. Pholem tissue

B. Cortex

C. Xylem tissue

D. All of these

**Answer: A**



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69. Ozone is produced naturally by high energy solar radiations and the activity of methane ( $\text{CH}_4$ ) in the presence of:

- A. Nitrogen oxide
- B. Sulphur dioxide
- C. Carbon monoxide
- D. Carbon dioxide

**Answer: A**



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70. Shifting cultivation requires:

A. Excessive soil erosion for crop production

B. Alternative crop pattern on a particular area

C. Long time for the regeneration of soil

D. Huge amount of commercial fertilizer

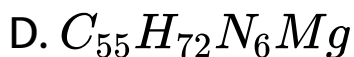
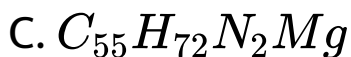
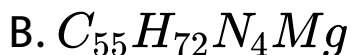
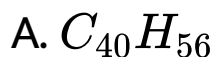
**Answer: C**



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71. The chemical formula of carotene obtained from carrot is :



**Answer: A**



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72. The primary cell wall may contain:

A. Cellulose

B. Pectic compounds

C. Certain polysaccharides

D. All of these

**Answer: D**



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73. The fertilizer named ' Nitrogen ' is prepared by the use of :

A.  $N+P+K$

B.  $CaC_3 + P$

C.  $CaC_2 + N_2$

D. None of these

**Answer: C**



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74. The average process of nitrogen fixation, the reduction of  $NO_3$  in the soil into molecular nitrogen is called :

- A. Chlorination
- B. Ammonification
- C. Denitrification
- D. Nitrification

**Answer: C**



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**75. Who coined the term 'telomere'?**

A. Steffensen

B. Waldeyer

C. Altman

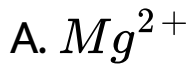
D. Muller

**Answer: D**



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76. soil particles, particularly clay and organic matter in soil , contain negative charges and attract positively charged ions, such as:



D. All of these

**Answer: D**



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77. The acid present in tomatoes is mainly:

A. Citric acid

B. Oxalic acid

C. Tartaric acid

D. Lactic acid

**Answer: B**



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**78.** Genes not located within the nucleus are almost always found in the :

A. Cytoskeleton

B. Plastids

C. Cytosol

D. All of the above

**Answer: B**



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79. Cldosporium is a / an:

A. Fungus

B. Alga

C. Cyanobacterium

D. PPLO

**Answer: A**



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80. Divergenty palmate venation is found in:

A. China-rose

B. Cinnamon

C. Ziyypus jujba

D. All of these

**Answer: A**



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