

A major site for synthesis of lipids is..




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Subject expert

MODEL QUESTIONS

- Identify the correct sequence of taxonomic categories.
 - Species → Phylum → Order → Kingdom
 - Genus → Species → Order → Kingdom
 - Species → Genus → Order → Class
 - Division → Family → Order → Genus
- Fungus that is extensively used in biochemical and genetic work.
 - Neurospora*
 - Ustilaga*
 - Colletotrichum*
 - Saccharomyces*
- The protein coat of virus is called:
 - Capsule
 - Capsomere
 - Capsid
 - Cypsel
- One bacterium used extensively in genetic engineering as vector for the transfer of genetic material is:
 - Agrobacterium tumefaciens*
 - Bacillus thuringiensis*
 - Clostridium tetani*
 - Xanthomonas oryzae*
- Indian plant physiologist who worked extensively on carbon fixation of C_4 plants is:
 - H.G. Khorana
 - C.G.K. Ramanujam
 - M.S. Swamintham
 - V.S. Ramadas
- Which of the following micro organism is useful as food for astronauts in space research programmes?
 - Chlorella*
 - Bacteria*
 - Spirogyra*
 - Rhizopus*
- The following plant provides peat which is used as fuel.
 - Marchantia*
 - Riccia*
 - Anthoceros*
 - Sphagnum*
- Plant which can exclusively survive with root is:
 - Taeniophyllum*
 - Trapa*
 - Vanda*
 - Tinospora*
- Find the incorrect statement with regard to papilionaceous corolla.
 - The largest petal is called

- standard petals or vexillum
 - The two smallest anterior petals are called keel petals
 - The standard petal overlaps the two lateral petals
 - The two lateral petals are called keel petals
- Roots found in the angiospermic plant with largest flower.
 - Photosynthetic roots
 - Haustorial roots
 - Pneumatophores
 - Velamen roots
- The scourge of water bodies or terror of Bengal is:
 - Water hyacinth*
 - Pistia*
 - Hydrilla*
 - Valineria*
- Periderm differ from endosperm in:
 - Having no reserved food
 - Being diploid tissue
 - Its formation by fusion of secondary nucleus with several sperms
 - Being a haploid tissue
- Mega sporangium is equivalent to:
 - Fruit
 - Nucellus
 - Ovule
 - Embryosac
- The coconut water in the tender coconut fruit is:
 - A nuclear cellular form
 - Free nuclear endosperm
 - A nucleated kernel
 - Cellular form of endosperm
- The plant that is regarded as "Flame of the forest" is:
 - Butea monosperma*
 - Pterocarpus santalinus*
 - Solanum nigrum*
 - Dalbergia latifolia*
- From the digram identify the part which is indicated by arrow mark from the following.
 
 - Satellite
 - Primary constriction
 - Secondary constriction
 - Centromere
- The fluid mosaic model was proposed by:
 - Schleiden and Shwann
 - Rudolf Virchow
 - Singer and Nicolson
 - Flemming
- A non membrane bound organelles is found in all cells.
 - Chloroplast
 - Mitochondria



- 1 & 2
- Ribosome
- The diagram shows an important concept in the genetic implication of DNA. Fill in the blanks A to C.

$$\text{DNA} \xrightarrow{A} \text{mRNA} \xrightarrow{B} \text{Protein} \xrightarrow{C(\text{Proposed by})}$$
 - A - Translation, B - Transcription, C - Erevin chargaff
 - A - Transcription, B - Translation, C - F. Crick
 - A - Translation, B - Extension, C - Rosalind Franklin
 - A - Transcription, B - Replication, C - James Watson
- The Golgi complex plays a major role:
 - In digesting proteins and carbohydrates
 - As energy transferring organelles
 - In post translational modification of proteins and glycosidation of lipids
 - In trapping the light and transforming into chemical energy
- A major site for synthesis of lipids is:
 - SER
 - RER
 - Symplast
 - Nucleoplasm
- Age of a tree can be estimated by:
 - Biomass
 - It's height and girth
 - Diameter of its heartwood
 - Number of annual rings
- Interfascicular cambium develops from the cells of:
 - Xylem parenchyma
 - Medullary rays
 - Endodermis
 - Pericycle
- Father of Ecology in India is:
 - Ramdev Mishra
 - Odum
 - Warming
 - Ambasht
- Which of the following is a pionner or bare rock succession?
 - Bryophytes
 - Lichens
 - Bacteria
 - Higher plants
- Both water and ion absorbtion and their movement in plant roots involves:
 - Apoplast
 - Symplast
 - 1 and 2
 - Either 1 or 2
- Leg-haemoglobin present in the root nodules is also called:
 - Oxygen decomposer
 - Oxygen parasite



- Oxygen scavenger
- Oxygen enzyme
- The essential chemical components may be of many coenzymes are:
 - Nucleic acids
 - Carbohydrates
 - Proteins
 - Vitamins
- The most abundant plant pigment in the world is:
 - Chlorophyll - a
 - Chlorophyll - b
 - Chlorophyll - c
 - Chlorophyll - d
- Assimilatory power is:
 - NADP and ATP
 - NADPH and ATP
 - NADP and ADP
 - NADPH and ADP
- The first stable product of fixation of atmospheric nitrogen in leguminous plant is:
 - Ammonia
 - Nitrite
 - Nitrate
 - Glutamate
- Which mendelian idea is depicted by a cross in which the F_1 generation resembles both the parents?
 - Law of dominance
 - Inheritance of gene
 - Co-dominance
 - Incomplete dominance
- Bacterio phage DNA and capsid are assembled into complete virions during:
 - Maturation
 - Penetration
 - Lysis
 - Adsorption
- The nucleic acid of viruses is enclosed by a protein coat called:
 - Viroid
 - Virion
 - Capsid
 - Core
- Sickle cell anemia is caused due to:
 - Deletions
 - Insertions
 - Polyploidy
 - Single base alterations
- In DNA replication the direction of newly synthesised daughter strands is:
 - $3' \rightarrow 5'$
 - $5' \rightarrow 3'$
 - $5' \rightarrow 5'$
 - $3' \rightarrow 3'$
- Which of the following Bt crops is being grown in India by the farmers?
 - Cotton
 - Brinjal
 - Soyabean
 - Maize
- Which enzymes will be produced

- in a cell in which there is a non-sense mutation in the lac Y gene?
 - Lactose permease
 - Transacetylase
 - β - galactosidase
- A good producer of citric acid?
 - Pseudomonas*
 - Clostridium*
 - Saccharomyces*
 - Aspergillus*
- During seed germination its stored food is mobilized by:
 - Cytokinin
 - ABA
 - Gibberllin
 - Ethylene
- DNA fragments generated by the restriction endonucleases in a chemical reaction can be separated by:
 - PCR
 - Electrophoresis
 - Restriction mapping
 - Centrifugation
- Today, a traditional drink of some parts of southern India is made by fermenting sap from:
 - Conifers
 - Palms
 - Sea palm
 - Cucurbits
- Sonalika* and *kalyan sona* varieties of wheat were developed in India by:
 - Swaminathan
 - Norman E. Borlaug
 - Robert Brown
 - G.H. Shull
- Name the genus of Taipei transgenic variety.
 - Solanum*
 - Triticum*
 - Brassica*
 - Oryza*
- Which of the following represents maximum number of species among global biodiversity?
 - Lichens
 - Fungi
 - Mosses and Ferns
 - Algae

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- 42
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- 43
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