SAMPLE CONTENT



MHT-CET TRIUMPH

QUESTIONS

Archaeopteryx is the connecting link between birds and reptiles. This transitional fossil provides palaeontological evidence that birds evolved from reptiles.



Written in accordance with the latest MHT-CET Paper Pattern which includes topics based on Std. XII Sc. and relevant chapters of Std. XI Sc. (Maharashtra State Board)

MHT-CET TRIUMPH BIOLOGY Based on Std. XI & XII Syllabus of MHT-CET

MULTIPLE CHOICE

Salient Features

- Includes chapters of Std. XII and relevant chapters of Std. XI as per latest MHT-CET Paper Pattern.
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- Includes solved MCQs upto MHT-CET 2018.
- Includes solved MCQs from NEET 2016, 2017 and 2018.
- Evaluation test provided at the end of each chapter.

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P.O. No. 124074

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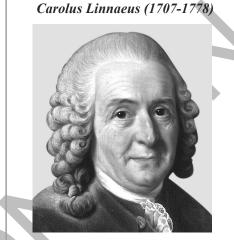
Note: Questions of standard XI are indicated by '*' in each Model Question Paper.

Textbook Chapter No.

Diversity in Organisms

Syllabus

- 1.0 Introduction
- 1.1 Diversity in Living Organisms
- 1.2 Systematics: Taxonomy, Taxonomic Hierarchy and Binomial Nomenclature
- 1.3 Five Kingdom System of Classification
- 1.4 Lichens
- 1.5 Viruses and Viroids

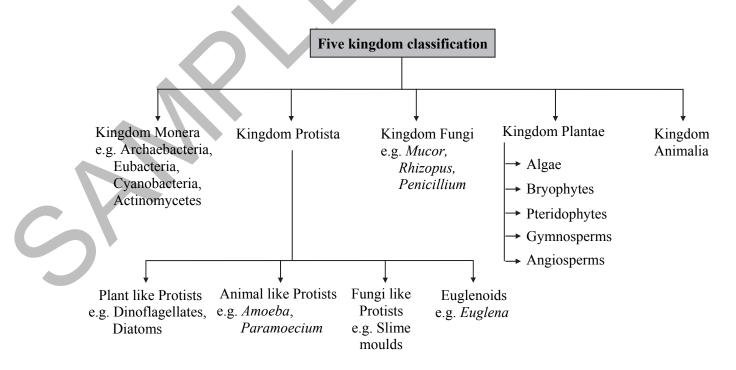


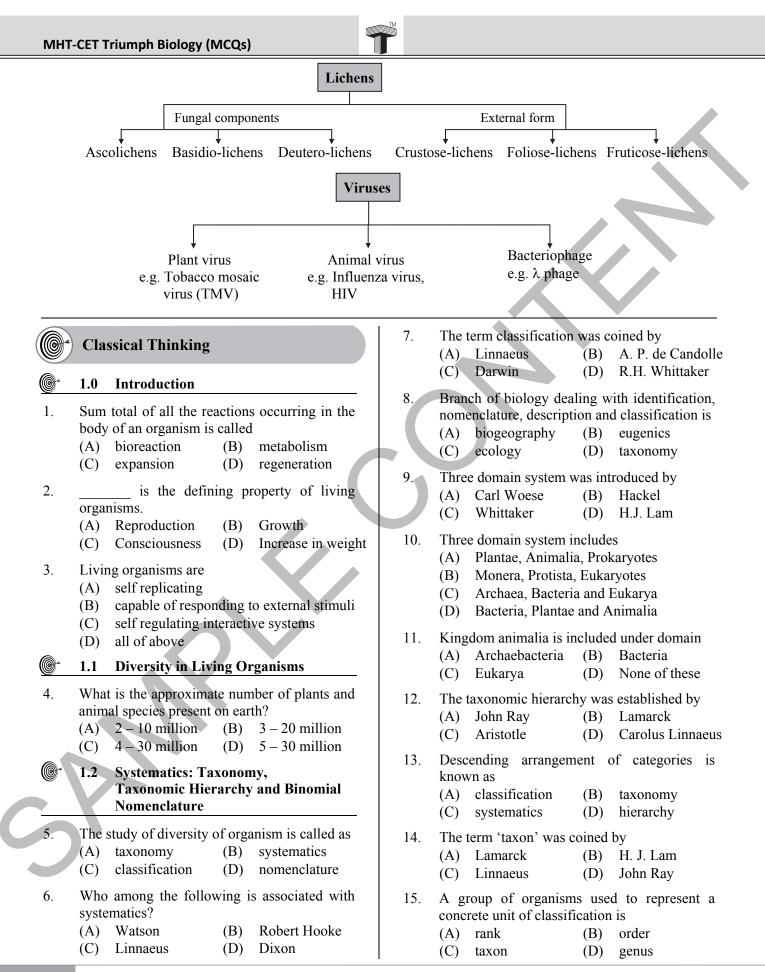
Carolus Linnaeus proposed the Binomial nomenclature system in 1758 which is a significant contribution to plant taxonomy and is widely accepted throughout the world.

Quick Review

Taxonomic hierarchy

 $Kingdom \rightarrow Division / Phylum \rightarrow Class \rightarrow Sub-class \rightarrow Series \rightarrow Order \rightarrow Family \rightarrow Genus \rightarrow Species$





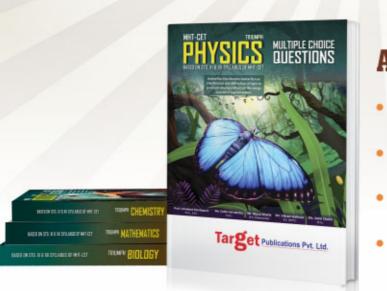
			Chapter 01 : Diversity in Organisms
16.	 Which is the CORRECT sequence in taxonomic hierarchy? (A) Class→species→order→family→division (B) Division→order→class→family→genus species (C) Division→class→order→family→genus species (D) Species→class→order→division→family 	26. 27.	In classification, the category present below family is (A) genus (B) species (C) order (D) class Which one of the following covers a greater number of organisms? (A) Species (B) Family
17.	In biological terminology, a group of similar organisms which are capable of inter-breeding and forming fertile offspring is called (A) species (B) tribe (C) genus (D) family	28.	(C) Class(D) KingdomDicotyledonae is a(A) category(B) class(C) order(D) kingdom
18.	The basic unit upon which the system of classification is constructed is the(A) species(B) order(C) family(D) class	29.	Taxonomic category 'order' comes in between(A) genus and species(B) genus and family(C) family and series
19.	 The species refers to a group of (A) individuals with some similarity (B) similar individuals with common ancestry (C) interbreeding members (D) both (B) and (C) 		The smallest taxon is (A) class (B) order
20.	Concept of species was remodified as closelyresembling interbreeding population by(A) Theophrastus(B) Darwin(C) Linnaeus(D) Ernst Mayr	31.	A group of closely related families which resemble in major characters are included under one (A) class (B) genus
21.	 Mayr's biological concept of species is mainly based on (A) morphological traits (B) reproductive isolation (C) modes of reproduction (D) morphology and reproduction 	32.	 (C) order (D) division A group of plants or animals with similar characters of any rank is (A) species (B) genus (C) order (D) taxon
22.	 Morphological concept of species was given by (A) H.J. Lam (B) Charles Darwin (C) Carolus Linnaeus (D) A. P. de Candolle 	33. 34.	Taxon 'Mangifera' denotes(A) genus(B) species(C) division(D) classAngiospermae and Gymnospermae are
23.	A group of organisms that can interbreed under natural conditions is called(A) morphospecies (B) biospecies	35.	 (A) kingdom (B) order (C) division (D) family In 'Solanum tuberosum', tuberosum denotes
24.	 (C) polyspecies (D) indica Which of the following is NOT a taxon but category? (A) Division (B) Dicotyledons 	36.	 (A) genus (B) species (C) family (D) tuber Binomial nomenclature is published in
25.	 (A) Division (B) Dicotyledons (C) Angiosperms (D) Polypetalae Basic unit of classification is (A) genus (B) class (C) species (D) order 		 (A) Philosophia Botanica (B) Species Plantarum (C) Systema Naturae (D) Historia Naturalis

MHT	-CET Triumph Biology (MCQs)				
37.	Binomial nomemclature systems follows rules such as the(A) specific name should begin with a capital letter.	46.	Prior to the proposal of binomial, the plant names were (A) Polynomials (B) Mononomials (C) Trinomial (D) Tetranomials		
	(B) scientific names must be printed in italics.(C) name of the author cannot be written in	@ *	1.3 Five Kingdom System of Classification		
	abbreviated form.	47.	eckel classified the organisms into		
) name of the species cannot be repeated even if the genera are different.		kingdoms. (A) two (B) three (C) four (D) five		
38.	name is called		Two kingdom classification system was given by		
20	(C) recognization (D) publication		(A) Carl Linnaeus(B) Huxley(C) Whittaker(D) John Ray		
39.	Which name is written correctly?(A) Apis <i>indica</i>(B) hibiscus esculentus		Whittaker proposed the system of classification.		
	(C) Mangifera indica(D) benghalensis Ficus		(A) two kingdom(B) three kingdom(C) four kingdom(D) five kingdom		
40.	 Botanical name of potato is (A) Ipomea batatas (B) Solanum tuberosum (C) Mangifera indica 	50.	Whittaker could not give place to one of the following in five kingdom classification.(A) Cyanobacteria (B) Slime moulds(C) Virus (D) Amoeba		
41.	(D) <i>Azadirachta indica</i> The scientific name of sunflower is	51.	In the five kingdom classification, the members in Kingdom Animalia are		
	 (A) Hibiscus rosa-sinensis (B) Mangifera indica (C) Helianthus annuus (D) Si l 		eukaryotic, heterotrophic and (A) unicellular (B) multicellular (C) photobiont (D) non motile		
42.	 (D) Sida acuta When a single species is described under different names by different authors, then these names are called as (A) antonyms (B) synonyms (C) holotype (D) variety 	52.	 Out of the following, which system shows the phylogenetic relationship between organisms? (A) Two kingdom classification (B) Five kingdom classification (C) Three kingdom classification (D) All of these 		
43.	 Which of the following is a wrong statement? (A) Vernacular names may be misleading. (B) Vernacular names are not universal. (C) Vernacular names are short and easy to follow. 	53.	 The five kingdom classification is based on (A) complexity in cell structure (B) mode of nutrition (C) complexity of organism's body (D) all of these 		
	(D) Vernacular names indicate phylogeny, i.e. evolutionary history of organisms.	54.	Primitive nucleus, DNA without histone proteins, absence of membrane bound cell		
44.	 Which of the following is a heterogeneous group? (A) Family, Genus, Order (B) Division, Class, Species (C) Hibitary Communication 		organelles are the characters of Kingdom(A) Protista(B) Monera(C) Fungi(D) Plantae		
45.	 (C) <i>Hibiscus</i>, Genus, Species (D) <i>Hibiscus, Sorghum, Cycas</i> International code of binomial nomenclature 	55.	Blue green algae belong to kingdom(A) Plantae(B) Protista(C) Fungi(D) Monera		
43.	International code of binomial homenclatureapplies to(A) viruses(B) plants(C) animals(D) both (B) and (C)	56.	(C)Fungr(D)MoneraThiobacillus is a(A)Photoautotroph(B)Chemoautotroph(C)Protist(D)Heterotroph		

		Chapter 01 : Diversity in Organisms
 57. Organisms of kingdom Monera shows (A) Chloroplasts (B) Mitochondria (C) Rigid cell wall (D) All of these 	67.	Some fungi have no cross walls in their hyphae. These hyphae are called (A) septate (B) non-septate (C) surface (D) all of them
58. In five kingdom classification, protista comprises of(A) both uni and multicellular microscopic eukaryotes	68.	 (C) septum (D) all of these Which cell organelle is absent in Kingdom fungi? (A) Chloroplast (B) Ribosome (C) Nucleus (D) Golgi body
 (B) unicellular eukaryotes (C) all prokaryotes (D) multicellular eukaryotes 	69.	Multicellular eukaryotic decomposers belong to kingdom (A) Animalia (B) Fungi (C) Plantae (D) Monera
 59. In kingdom Protista, the locomotory organs are (A) cilia (B) flagella (C) pseudopodia (D) all of these 	70.	are also called as Sac fungi.(A) Ascomycetes(B) Basidiomycetes(C) Phycomycetes(D) Deuteromycetes
 60. Protists obtain their food as (A) photosynthesizers only (B) chemosynthesizers 	71.	Deuteromycetes are also called as (A) bracket fungi (B) algal fungi (C) ascocarps (D) imperfect fungi
(C) heterotrophs only(D) both (A) and (C)	72.	Multicellular eukaryotic consumers belong to Kingdom (A) Fungi (B) Protista
 61. Which one of the following is a member of protista? (A) Nostoc (B) Frog (C) Slime moulds (D) Mushroom 	73.	 (C) Plantae (D) Animalia The kingdom of true multicellular producers is (A) Animalia (B) Plantae
 62. Desmids are also called as (A) Red algae (B) Golden algae (C) Ascocarps (D) Euglenoids 	74.	 (C) Monera (D) Protista Plants are (A) unicellular, eukaryotic, photosynthetic organisms
 63. Chrysophytes include (A) diatoms (B) desmids (C) dinoflagellates (D) all of these 		 (B) multicellular, eukaryotic, heterotrophic organisms (C) multicellular, eukaryotic, photosynthetic organisms
 64. Amoeba and Paramoecium are included in kingdom (A) Animalia (B) Protista (C) Monera (D) Fungi 	75.	(D) unicellular prokaryotic organismsVascular tissues are absent in(A) algae and bryophyta
 65. The Kingdom which is a link between prokaryotes and multicellular eukaryotes is (A) Protista (B) Monera 	76.	 (B) bryophyta and pteridophyta (C) algae and gymnosperm (D) bryophyta and gymnosperm Which is NOT a correct match?
(C) Plantae (D) Animalia		(A) Fungi - <i>Penicillium</i>(B) Monera - bacteria
66. Which of the following is CORRECT regarding protists?(A) They reproduce by asexual or sexual		(C) Protista – yeast(D) Plantae – moss
(B) <i>Amoeba</i> and <i>Paramoecium</i> are autotrophic.	<u></u> <u></u> 77.	1.4 Lichens was first to use the word 'lichen'.
(C) They are multicellular, prokaryotic and mostly aquatic.	//.	 (A) Theodor Diener (B) Theodor Schwann
(D) <i>Trichophyton</i> , slime moulds, <i>Euglena</i> are some protists.		(C) Linnaeus(D) Theophrastus



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