Questionbank Biology

Unit -I

Chapter-1. Classification of Living Organisms

IMPORTANT POINTS

Nature is formed by nonliving and living organisms. One who has life and performs biological processes and manifests to environment is called living organism. Living organism possess certain characters like-reproduction, growth, development, reaction with environment adaptation and death. Besides these it has characteristics like metabalism, entropy, efficiency to maintain heredity. It produces new generation through reproduction. Energy is reguired during metabolism. Growth is a out put of metabolism. Quantity increases due to growth. Tissues and organs are formed due to differentiation and organigenesis occurs during development living organism shows efficiency of manifestations of feeling towards environment. It obtains adaptations to sustain in an environment and creates variations for adaptation. New species is created due to variation, hence biodiversity forms. It has efficiency to maintain heredity before its death.

There is an aggregation of different layers in living organisms. Membranes are formed of large molecules and molecules are formed from atoms. Cell is formed by membranus organelles. Tissue is constituted by group of cells which are present in organ and organ system. Body is composed by such organ systems. Such living organism is known as species. Population is structured by group of species. Such combined population of a same habitat form a biotic community. By interaction between biotic community and environment is constituted an cosystem. By composition of ecosystems biosphere is constituted.

The study of living organisms can be done by nomenclature and identification characters. Living organisms are classified in to groups. Meaningfully called classification which has species, genus, order, family, class, phylum and kingdom. There are certain rules and regulations. Many scientist's have contributed in this field. There are various sources for study.

From the given options select the correct option (a, b, c, d) Each carries one mark.

- 1. In taxonomic classification the correct sequence is (CBSC-92)
 - (A) class-family-tribe-order-genus-species
 - (B) class-order-family-tribe-genus-species
 - (C) tribe-order-family-genus-species
 - (D) class-tribe-order-family-genus-species
- 2. The smallest taxon amongst following is(PMT-94) (A) class (B) order (C) species
- 3. Taxonomically a species is (PMT-94)
 - (A) A group of evolutionary related population
 - (B) A fundamental unit in the phylogeny of organisms
 - (C) Classical evolutionary taxonomy
 - (D) A community taken into consideration as an evolutionary base



INDIAN SCHOOL MUSCAT

(D) genus

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4.	Species is ((CBSC-94)			
	(A) not related to evolution(B) specific class of evolution				
	(C) specific unit o				
	· · · •	unit in the evolutionary	history of a race		
5.	-	rising the binomial nom	-	DPMT-96)	
	(A) Family & gen	•			
6.		•		ept under (PMT-96)	
	(A) species	(B) genus	(C) order	(D) taxon	
7.	· · · •				
	Which of the following is the correct sequence in the increasing order of complexity ? (PMT-97)				
	(A) molecules, tissues, community, population (B) cell, tissues, community, population				
		isms, population, commu			
8. '		ce of taxonomic catego	• • •		
	(A) class-phylum-tribe-order-family-genus-species				
	(B) phylum-order-class-tribe-family-genus-species				
	(C) division-class-order-family-tribe-genus-species				
	(D) division-class-family-tribe-order-genus-species				
9. '	The total words in biomia nomensature at				
	(A) 5			(D) 4	
10.	New systematic a	nd the concept of life w	vas given by	(BHU-98)	
	(A) Huxley	(B) Odom	(C) Elton	(D) Linnaeus	
11.	Two organisms of	f same class but differen	t families will be kept	under the same (CET-98)	
	(A) genera	(B) species	(C) order	(D) family	
12.	Which of the follo	owing will form a new s	species ? (PMT-98)		
	(A) inter breeding		(B) variations		
	(C) differential rep	production	(D) none of the a	above	
13.	A community incl	udes (CET-98)			
	(A) a group of same genera				
	(B) a group of same population				
	(C) a group of individuals from same species				
	(D) different populations interacting with each other				
14.	One of the follow	ving cannot be called a t	axon (PMT-98)	
	(A) order	(B) family	(C) genus	(D) none of the above	
15.	Binomial nomence	lature was given by	(BHU-97)		
	(A) Huxley	(B) Ray	(C) Darwin	(D) Linnaeus	
16.	In classification th	ne category below the le	evel of family is	(CET-98)	
	(A) class	(B) species	(C) phylum	(D) genus	

	browth in plant is (pr	cellular level		ET-98)	
	browth in plant is (pr		(m)		
			(C) population	(D) tissue level	
19.	(A) limited (B)	nt-99)			
19.	(\mathbf{A}) minute (\mathbf{D})	life long	(C) diffusable	(D) unlocalized	
	First botanist to give binom	nial nomenclature	was (WARDHA-2	2000)	
	(A) Baubin (B)	Aristotle	(C) Linnaeus	(D) Hutchinson	
20.	Taxon is (CET-2000)				
	(A) species		(B) unit of classification		
	(C) highest rank in classification		(D) group of closely related		
21.	One of the following includes most closely linked organisms (PMT-2001)				
	(A) species (B)	genus	(C) family	(D) class	
22.	Which of the following tax	ons cover a greate	er number of organisms	? (PMT-2001)	
	(A) order (B)	family	(C) genus	(D) phylum	
23.	Inbreeding is possible between two members of (AMU-2005)				
	(A) order (B)	family	(C) genus	(D) species	
24.	Which of these is correct order of hierarchy ? (WARDHA-2002)				
	(A) kingdom, division, phylum genus & species				
	(B) phylum, division, genus & class				
	(C) kingdom, genus, class, photon & division DL MUSCAT (D) phylum, kingdom, genus, species & class				
25.	Which is not a unit of taxonomic category ? (BVP-2002)				
		glumaceae	(C) class	(D) phylum	
26.	Which is the first step of ta	-			
	(A) nomenclature (B) classification				
	(C) identification		(D) hierarchical arrangement		
27.	The five kingdom classification was given by (BYP-2002)				
	•	Linnaeus	(C) Copeland	(D) Haeckel	
28.	In taxonomy, class comes i			(-)	
	(A) kingdom and order			(B) phylum and order	
	(C) kingdom and family		(D) family and genus	(-) F-J	
29.	Taxon includes (PMT-2002)				
_, .	(A) Genus and species		(B) kingdom and division		
	(C) all ranks of hierarchy		(D) none of the above		
30.	Binomial nomenclature refers to (CET-2000)				
	(A) Two names of a species				
	(B) one specific and one local name of a species				
	(C) two words for the name of a species				
	(D) two life cycles of an organism				
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31.	Carl Linnaeus is famous for (GGSPU-2002)						
	(A) coining the term 'systematics'		(B) introducing binomial nomenclature				
	(C) giving all natural system of classification		(D) all of these				
32.	True species are (CBSE-2002)						
	(A) interbreeding		(B) sharing the same	(B) sharing the same niche			
	(C) feeding on the same food (D) reproductively isolated						
33.	The smallest unit of classification is (GGSPU-2002)						
	(A) species	(B) sub-species	(C) class	(D) genus			
34.	Who coined the term 'taxonomy' ? (BVP-2003)						
	(A) Candolle	(B) Waksman	(C) Leuwenhoek	(D) Louis Pasteur			
35.	Basic unit of class	sification of organisms is	(CET-2003)				
	(A) species	(B) population	(C) class	(D) family			
86.	The unit of classif	fication containing concrete	biological entities is	(WARDHA-2003)			
	(A) taxon	(B) species	(C) category	(D) order			
37.	Species are consi	dered as (CBSE-20)03)				
	(A) real basic unit	ts of classification	(B) the lowest units	of classification			
	(C) artificial conc	ept of human mind which o	cannot be defined in at	osolute terms			
	(D) real units of classification devised by taxonomists						
38.	The living organisms can be unexceptionally distinguished from the non-living things on the						
	basis of their ability for (CBSE-2007).						
	(A) interaction with the environment and progressive evolution						
	(B) reproduction						
	(C) growth and movement						
	(D) responsivenes	ss to touch					
39.	Two plants can be conclusively said to belong to the same species if they(CBSE-2007						
	(A) have more than 90% similar genes						
	(B) look similar and possess identical secondary metabolites						
	(C) have same number of chromosomes						
	(D) can reproduce freely with each other and form seeds						
		f alogaification airron has	Natural system of classification given by (UP-PMT-2009)				
40.	Natural system of	classification given by					
40.	Natural system of (A) Linnaeus	(B) Hutchinson	(C) Bentham & Ho	oker(D) Haeckel			
	(A) Linnaeus	• •	· · /	oker(D) Haeckel			
	(A) Linnaeus	(B) Hutchinson of which systematic ? (HA	· · /				
	(A) Linnaeus Huxley is a father	(B) Hutchinson of which systematic ? (HA	ARYANA-2009)	tic			
40. 41. 42.	(A) LinnaeusHuxley is a father(A) new systemat(C) evolutionary s	(B) Hutchinson of which systematic ? (HA	ARYANA-2009) (B) artificial systema (D) natural systemat	tic			
41.	(A) LinnaeusHuxley is a father(A) new systemat(C) evolutionary s	(B) Hutchinson of which systematic ? (Hatic systematic	ARYANA-2009) (B) artificial systema (D) natural systemat	tic			
41.	(A) LinnaeusHuxley is a father(A) new systemat(C) evolutionary sThe smallest unit(A) DNA	(B) Hutchinson of which systematic ? (HA ic systematic of living organism is	ARYANA-2009) (B) artificial systemat (D) natural systemat . (AIPMT-2003) (C) cell	tic ic			

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44.	True name is (MANIPAL-2001)					
	(A) APIS Indica	(B) mangifera Indica				
	(C) MANGIFERA INDICA	(D) Mangifera indica				
45.	Maize is a (CBSE-09)	() 6				
	(A) taxon (B) categor	(C) series	(D) species			
46.	Taxonomic category arrange in de					
	(A) key (B) hierarch	-	(D) taxonomic category			
47.	Common name and genus are san					
	(A) Mangifera (B) Zia	(C) Rana	(D) Gorilla			
48.	Assertion (A) To give a scientific					
		(R) they have articles, photographs and recommendation to name a plant (PMT-2000)				
	(A) A and R both is correct and F					
	(B) A is true but R is false	L				
	(C) A and R both correct but R is	not correct explanation to A				
	(D) both are false					
49.	Hierarchical classification means					
	(A) To divide division into classes		(B) To divide classes into orders			
	(C) To divide orders into families	(D) To rank things of	(D) To rank things one above the other			
50.	Assertion (A) Taxon and category are same OL MUSCAT Reason (R) Category shows hierarchical classification.					
	(A) A and R both are correct and R is a correct explanation of A					
	(B) A and R both are correct and R is not a correct explanation of A					
	(C) A is true and R is false					
	(D) A is false but R is true					
51.	Assertion (A) The hierarchy includes seven obligate categories.					
	Reason (R) Intermediate categories are used to make taxonomic positions more informative					
	(A) A and R both are correct and R is a correct explanation of A					
	(B) A and R both are correct but R is not a correct explanation of A					
	(C) A is true and R is false					
	(D) If both are false					
	(e) A is false but R is true					
52.	Assertion (A) Death is a meaningful event.					
	Reason (R) The number of living individuals of each species remains limited through death and components of body further turn to environment					
	(A) A and R both are true and R is a correct explanation of A					
	(B) A and R both are true but R is not a correct explanation of A					
	(C) A is true and R is wrong					
	(D) A is wrong and R is true					

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- 53. Assertion (A) If the ratio of anabolic process is more than catabolic process, growth occurs Reason (R) Growth is an out-put of metabolism.
 - (A) A and R both are true and R is a correct explanation of A
 - (B) A and R both are true but R is not a correct explanation of A
 - (C) A is true and R is wrong
 - (D) A is wrong and R is true
- 54. Assertion (A) Members of the same species can't do copulation.
 - Reason (R) Zygote is produced as a result of fertilization.
 - (A) A and R both are true and R is a correct explanation of A
 - (B) A and R both are true and R is not a correct explanation of A
 - (C) A is true and R is wrong
 - (D) A is wrong and R is true
- 55. Assertion (A) Energy transformation also takes place in metabolism in living organism.
 - Reason (R) Organism have to perform many biological activities.
 - (A) A and R both are true and R is a correct explanation of A
 - (B) A and R both are true and R is not a correct explanation of A
 - (C) A is true and R is wrong
 - (D) A is wrong and R is true
- Assertion (A) Group of genera which are closely related is called family Reason (R) Blattidae is a family which contain pigeons and doves having different genera and species.
 - (A) A and R both are true and R is a correct explanation of A
 - (B) A and R both are true and R is not a correct explanation of A
 - (C) A is true and R is wrong
 - (D) A is wrong and R is true
- 57. Assertion (A) Binomial nomenclature method is given by Linnaeus.
 - Reason (R) Linnaeus is known as father of taxonomy.
 - (A) A and R both are true and R is a correct explanation of A
 - (B) A and R both are true and R is not a correct explanation of A
 - (C) A is true and R is wrong
 - (D) A is wrong and R is true
- 58. Assertion (A) Organogenesis and Differention takes place during growth. Reason (R) Number of cells increase during growth.
 - (A) A and R both are true and R is a correct explanation of A
 - (B)A and R both are true and R is not a correct explanation of A
 - (C) A is true and R is wrong
 - (D) A is wrong and R is true

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g and R is true Every organism posses reproduction,growth,development,adaptation and deatl				
Class				
Branch connected with nomenclature, identification and classification is called				
hysiology				
(A) Family NDIAB Order CHOOP class USCA (P) Division Binomial system of nomenclature for plants is effective from				
5/7/1736				
D)				
C)				
B)				
D)				
B) A)				
B)				
D)				
D) A)				
D) A) C)				
D) A) C) D)				
D) A) C) D) A)				

63. (D)

62. (B)

61. (A)

64. (B)