## BIOLOGY



SYLLABUS: The Living World

Max. Marks: 180 Marking Scheme: + 4 for correct & (-1) for incorrect Time: 60 min.

INSTRUCTIONS: This Daily Practice Problem Sheet contains 45 MCQs. For each question only one option is correct. Darken the correct circle/ bubble in the Response Grid provided on each page.

- 1. The living organisms can be unexceptionally distinguished from the non-living things on the basis of their ability for
  - (a) interaction with the environment and progressive evolution
  - (b) reproduction
  - (c) growth and movement
  - (d) responsiveness to touch.
- 2. Which one of the following animals is correctly matched with its particular named taxonomic category?
  - (a) Tiger tigris, the species
  - (b) Cuttle fish mollusca, a class
  - (c) Humans primata, the family
  - (d) Housefly musca, an order

- 3. Taxonomic hierarchy refers to
  - (a) Step-wise arrangement of all categories for classification of plants and animals
  - (b) A group of senior taxonomists who decide the nomenclature of plants and animals
  - (c) A list of botanists or zoologists who have worked on taxonomy of a species or group
- (d) Classification of a species based on fossil record.

  Choose correct scientific name of mango.
  - (a) Mangifera Indica
  - (b) Mangifera indica Linn
  - (c) Mangifera indica Hook.
  - (d) Mangifera indica L

RESPONSE GRID

1. abcd

2. (a) (b) (c) (d)

3. (a) (b) (c) (d)

4. (a) b) c) d)

Space for Rough Work

в-2	:		DPP/ CB01			
5.	Arrange the following taxonomic categories in increasing number of common characteristics w.r.t. plant mango A. Dicotyledonae	11.	The ascending or descending arrangement of taxonomic categories is called as  (a) classification (b) taxonomy			
	<ul><li>B. Polymoniales</li><li>C. Mangifera</li></ul>	12.	(c) hierarchy (d) key Select the false statement			
	D. Angiospermae E. Anacardiaceae		(a) Carolus Linnaeus described plants and classified them on the basis of their sexual parts			
	(a) $A \rightarrow D \rightarrow B \rightarrow E \rightarrow C$ (b) $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$		<ul><li>(b) Some facts established by accurate and repeated observations do not require further verification</li><li>(c) Study of the vestigeal organs is called teleology (d)</li></ul>			
	(c) $D \rightarrow A \rightarrow B \rightarrow E \rightarrow C$ (d) $D \rightarrow A \rightarrow C \rightarrow E \rightarrow B$		'White Revolution' resulted in enhanced production of milk 13. Animal taxonomists have named the ani-			
6.	The common characteristics between brinjal and wheat	mals	als according to:			
	can be observed maximum at the level of their.		(a) International class for Zoology Nomenclature (b)			
	(a) Division (b) Phylum (c) Kingdom (d) Both (b) and (c)		Indian code for Zoology Nomenclature (c) International classification for Zoological Nomenclature			
7.	Study of number of chromosomes for resolving difficul-	14.	(d) International code for Zoological Nomenclature Which of the following statement is not true?			
	ties in classification is used in (a) Chemotaxonomy (b) Morphotaxonomy (c) Cytotaxonomy (d)	14.	(a) Homeostasis is a fundamental property of life (b)			
_	Biochemical taxonomy		When the external temperature is warm, the superficial blood vessels constrict to prevent loss of body heat			
8.	Most names in biological nomenclature of living organisms are taken from which language?		(c) Human beings are endothermic (d)			
	(a) Hindi	15.	Human beings are homeothermic Species is: (a) population of individuals having same			
	do Lati		genotypes and			
	(b) Latin (c) German (d) French 9.		phenotypes (b) a group of individuals inhabiting a			
Γheı	main objective of plant taxonomy is		geographical area (c) a group of interbreeding populations (d) population of one type			
	(a) to study the world's flora (b)		The usage of binomial names, for plant species was accepted			
	to provide a method for identification and nomencla		by all after the publication of the work by:			
	ture (c)		(a) Hooker			
	to provide Latin 'scientific' names for every group of plants in the world		(b) Lin <mark>na</mark> eus (c) Bentham (d) Darwin			
	(d) all of these	17.	Which of the following is less general in characters as			
10.	Which one of the following has least similar characters?		compared to genus?			
	(a) Family (b) Class		(a) Species (b) Division			
	(c) Genus (d) Species		(c) Class (d) Family			
	<b>5. abcd 6. abcd</b>	7.	abcd 8. abcd 9. abcd			
	RESPONSE 10 A B COM TO THE RESPONSE		(a) (b) (c) (d) 14. (a) (b) (c) (d)			
	15. a b c d 16. a b c d		abod			

\_\_\_ Space for Rough Work \_\_\_

DP	P/ CB01 —			в-3	
18.	A taxon with reference to classification of living organisms can be defined as		(b) The classifica morphological	ation of organisms based on broad characters	
	<ul><li>(a) a group of similar genera</li><li>(b) a group of similar species</li></ul>			ous taxa of organisms and establishing	
	<ul><li>(c) a group of organisms based on chromosome numbers</li><li>(d) a group of any one rank of organisms</li></ul>			ation of organisms based on their story and establishing their phylogeny	
19.	Species are considered as (a) Real units of classification devised by taxonomists (b) Real basic units of classifica-		on the totality of various parameters from all fields of studies		
	tion (c) The lowest units of classification (d) Artificial concept of human mind which cannot be	25.	An animal with same generic, specific and subspecific names is		
20.	defined in absolute terms Linneaus system of classification is:		<ul><li>(a) man</li><li>(c) rabbit</li></ul>	(b) gorilla (d) elephant	
20.	(a) Natural		Two similar holotypes are called		
	(b) Artificial		(a) Isotypes	(b) Neotypes	
21	(c) Phylogenetic (d) Progressive	27	(c) Syntypes	(d) Mesotypes	
21.	The book systema naturae was written by	27.	Which of the follow	_	
	(a) Carolus Von Linnaeus		<ul><li>(a) Carnivora</li><li>(c) Herbivora</li></ul>	(b) Insectivora	
	(b) Hutchinson (c)	20		(d) Mas <mark>tig</mark> ophora	
	Engler and P <mark>rant</mark> l (d) Bentham & H <mark>oo</mark> ker	28.	(a) Class	includes rela <mark>ted</mark> families is (b) Phylum	
22.	"Ordines Anomali" of Bentham and Hooker includes: (a)		(c) Order	(d) King <mark>do</mark> m	
22.	Seed plants showing abnormal forms of growth and	29.	NBRI is situated at	(u) Kinguoni	
	development (b) Plants represented only in fossil	2).	(a) Calcutta	(b) Bom <mark>ba</mark> y	
	state (c) Plants described in the literature but which		(c) Madras	(d) Lucknow	
	Bentham	30.		nclature type is termed by a taxonomist	
	and Hooker did not see in original (d) A few orders		as	to med by a taxonomise	
	which could not be placed satisfactory in		(a) Syntype	(b) Neotype	
23	the classification. What is true for individuals of same species?		(c) Paratype	(d) Isotype 31. Classification	

(a) Live in same niche

(b) Live in same habitat

(c) Interbreeding

(d) Live in different habitat

24. Biosystematics aims at (a) Identification and arrangement of organisms on the

basis of their cytological characteristics

based on sequencing of DNA and chemical nature of protein is

(a) Chemotaxonomy

(b) Cytotaxonomy

(c) Adansonian taxonomy

(d) Karyotaxonomy

22. (a) (b) (c) (d) 18. a b c d 19. a b c d 20. a b c d 21. a b c d RESPONSE 27. (a) (b) (c) (d) 23. a b c d 24. (a) (b) (c) (d) 26. (a) (b) (c) (d) 25. a b c d GRID 31. (a) (b) (c) (d) 28. (a) (b) (c) (d) **29.** (a) (b) (c) (d) **30.** (a) (b) (c) (d)

Space for Rough Work

в-4						DPF	P/ CB01
32.	Rattus rattus scie (a) Autonyms (c) Synonyms	(b) Ta	s an example of utonyms omonyms	39.	to other such name?  (a) Autonym	ng is a name for a taxon that (b) Synonym	at is identical
33.	Species belonging  (a) Syntype  (c) Lectotype	g to different (b) Pa (d) Iso	time period are call ratype otype	40.	(c) Homonym Which of the follow (a) Autonym	(d) Tautonym ing is an automatically cre	ated name?
34.	material is missing (a) Holotype	ng is known as (b) Iso	otype	-	<ul><li>(b) Synonym</li><li>(c) Homonym</li><li>(d) Tautonym</li></ul>	ith at an ath, you at a can an	:
رز مراد	(c) Paratype	` '	eotype <b>35.</b> Choose	41.	called	oithet exactly repeats gener	ic name, it is
the ii	• •	mens are poiso	oned by using DDT uside metallic vascu		(a) Basionym (c) Homonym	(b) Synonym (d) Tautonym	
•	(c) Herbarium s It is used for	she <mark>et is 41 × 29</mark> alpha taxonor	cm (d) mic research	42.	<ul><li>Which of the follow</li><li>(a) Seasonal isolati</li></ul>	ing is most important for son (b)	speciation?
36.	No non-living object is capable of reproduction or replication by itself. Although reproduction can not be an all-inclusive defining characteristics of living organisms because (a)			inclusive	Reproductive is (c) Behavioural iso (d) Temporal isolat	lation	
	Organisms like mules do not reproduce (b) It brings about variation in offsprings (c) Clones are blueprints of their parents (d) Drones (male honey bees)			prints of	<ul><li>Species occurring in as</li><li>(a) Sibling</li></ul>	different geographical are	as are called
	are produced parthenogenetically			44,	(c) Allopatric	(d) Neopatric  ferent species of plants a	and animals
37.	(a) Order	(b) Cla		ommon ?	present in particular (a) Population	(b) Com <mark>mu</mark> nity	
20	(c) Phylum  Mark the add an	(d) Far	•	45	(c) Ecosystem  The study of the lain	(d) Biosphere	rm 0.11 m 0.0 :
38.	Mark the odd on (a) Family	(b) Cla		45.	(a) ecology	d of life in o <mark>ute</mark> r space is k (b) evolution	anown as :
	(c) Taxon	(d) Ph			(c) anthropology	(d) exobiology	
	Response Grid	32. a b ( 37. a b ( 42. a b (	© d 38. a (	)©(d) 39	.abcd 40.		60d
				Space for Rougi	h Work		
				4 DDB 45		/ DIOLOGY	_
	DAILY	PRACIIC	EPROBLEN	TDPP CH	HAPTERWISE	1 - BIOLOGY	
	Total Ques	stions	45	Total M	arks	180	

DAILY PRACTICE PROBLEM DPP CHAPTERWISE 1 - BIOLOGY				
Total Questions 45 Total Marks		180		
Attempted Correct				
Incorrect		Net Score		
Out-off Score 45 Qualifying Scor		Qualifying Score	60	
Success Gap = Net Score - Qualifying Score				
Net Score = (Correct $\times 4$ ) – (Incorrect $\times 1$ )				

Fundamentals - Call - 9667772681