

# PVVC

Premium Study Material

Premium Guru (PG)

Premium Live (PL)

## (Premiumvikas.com)

- In plants, growth occur by...through their life span  
Choose and appropriate option to complete the given NCERT statement  
(A) cell dedifferentiation (B) cell differentiation  
(C) cell multiplication (D) None of these
- The word used in definition of living organism is  
(A) Self - replicating (B) Self-regulating  
(C) Evolving (D) All correct
- Binomial nomenclature is  
(A) Two words in name of a species  
(B) Two names local and specific  
(C) Two names of a species  
(D) Two phases, asexual and sexual, in the life cycle of a species
- Division of plant kingdom providing dominant terrestrial flora of the present day is  
(A) Pteridophyta (B) Spermatophyta  
(C) Thallophyta (D) Bryophyta
- Metabolism can be best defined as  
(A) the process in which chemicals are formed inside a body  
(B) the process in which chemicals are destroyed inside a body  
(C) the sum total all of chemical reactions occurring in a body  
(D) a complex construction process only
- The suffix 'idae' refers to  
(A) Family (B) Genus  
(C) Order (D) Division
- Two or more species occupying identical or overlapping areas are known as  
(A) Sympatric species (B) Allopatric species  
(C) Sibling (D) Subspecies
- Biosystematics aims at  
(A) Identification and arrangement of organisms on the basis of their cytological characteristics  
(B) The classification of organisms based on broad morphological characters  
(C) Delimiting various taxa of organisms and establishing their relationships  
(D) The classification of organisms based on their evolutionary history and establishing their phylogeny on the totality of various parameters from all fields of studies
- In following taxa which taxon is having the less similarity in characters ?  
(A) Class (B) Subclass  
(C) Clan (D) Order
- Match column I with column II for housefly classification and select the correct option using the codes given below.

Column I	Column II
A. Family	(i) Diptera
B. Order	(ii) Arthropoda
C. Class	(iii) Muscidae
D. Phylum	(iv) Insecta

  
(A) A(iii), B(i), C(iv), D(ii) (B) A(iii), B(ii), C(iv), D(i)  
(C) A(iv), B(iii), C(ii), D(i) (D) A(iv), B(ii), C(i), D(iii)
- The branch of Botany concerned with the classification, nomenclature and identification of plants is  
(A) Systematic Botany (B) Ecology  
(C) Morphology (D) Physiology
- ..... and ..... are characteristics of cells.  
(A) Growth and reproduction (B) Development and reproduction  
(C) Metabolism and development (D) All of above
- In binomial nomenclature, first name represents  
(A) Author (B) Species  
(C) Genus (D) None
- Group of orders is called.....  
(A) Speles (B) Kingdom  
(C) Class (D) Phylum
- Generally, museum is developed by  
(A) Schools and collages (B) Botanical gardens and Herbarium  
(C) Collages and Botanical gardens (D) Schools and botanical gardens
- Genus is a group of similar and related  
(A) Order (B) Genera  
(C) Families (D) Species
- Characters of organelles are not due to their internal molecules but.....  
(A) Due to interaction between molecules (B) Due to senescent of tissue  
(C) Reactions between cells and tissues (D) None of the above
- Holotype is  
(A) Specimen used by author as nomenclature type  
(B) Specimen referred alongwith original description  
(C) Duplicate of nomenclature type  
(D) Specimen selected from original when nomenclature type is missing
- Two similar holotypes are called  
(A) Mesotypes (B) Meotypes  
(C) Syntypes (D) Isotypes
- Nomenclature is governed by certain universal rules. Which one of the following is contrary to the rules of nomenclature?  
(A) The names are written in Latin and are italicised.  
(B) When written by hand the names are to be underlined.  
(C) Biological names can be written in any language.  
(D) The first word in a biological name represents the genus name and the second is a specific epithet.

21. Phylum of Insecta.  
 (A) Chordates (B) Diptera  
 (C) Arthropoda (D) Musca
22. Order of Mammalia.  
 (A) Sapindales (B) Carnivora  
 (C) Poles (D) Polemoniales.
23. Which of the following is not true for a species?  
 (A) Members of a species can interbreed.  
 (B) Gene flow does not occur between the populations of a species.  
 (C) Each species is reproductively isolated from every other species.  
 (D) Variations occur among members of a species.
24. Choose correct option for sentence.  
 (i) Every organism can grow.  
 (ii) Every organism gives birth to a child without any exception.  
 (iii) Amoeba like organism can reproduce  
 (A) *ii, iii* (B) *i, ii*  
 (C) *i, iii* (D) *i, ii, iii*
25. The suffix -oideae is used for  
 (A) Tribe (B) Family  
 (C) Class (D) Subfamily
26. The system of classification based on evolutionary and genetic relationships among organisms, ignoring the morphological similarities or differences, is called  
 (A) cladistics (B) phenetics  
 (C) classical systematics (D) new systematics
27. Who did propose natural classifications of plants  
 (A) Carolus Linnaeus (B) John Hutchinson  
 (C) Bentham and Hooker (D) Oswald Tippo
28. The basic unit of classification /taxonomy is  
 (A) Genus (B) Species  
 (C) Family (D) Order
29. They are reproduced by fragmentation.  
 (A) Fungi (B) The filamentous algae  
 (C) Protonema of mosses (D) All correct
30. Hutchinson's system of classification was revised in  
 (A) 1995 (B) 1959  
 (C) 1954 (D) 1946
31. Anacardiaceae is a family of  
 (A) Wheat (B) Potato  
 (C) Mustard (D) Mango
32. In following which sentence is incorrect?  
 (A) Genus : group of closely related species (B) Family : group of related genera  
 (C) Order : group of family (D) Sub class : group of family
33. *Musca domestica* is a scientific name of  
 (A) Housefly (B) Human  
 (C) Mango (D) Dog
34. Organisms show diversity in their volume, shape, life style and many other things. It is called.....  
 (A) Death (B) Biodiversity  
 (C) Adaptation (D) Differentiation
35. Scientific name of Mango plant is *Mangifera indica* (Linn.) Santapau. In the above name Santapau refers to  
 (A) Variety of Mango  
 (B) A taxonomist who proposed the present nomenclature in honour of Linnaeus  
 (C) A scientist who for the first time described Mango plant  
 (D) A scientist who changed the name proposed by Linnaeus and proposed present name
36. Choose correct one.  
 (A) Species name should be written in capital letters always.  
 (B) The first word in biological name represents species.  
 (C) *Solanum* and *Panthera* indicates species  
 (D) Human beings belong to the species *sapiens* which is grouped in the genus *homo*.
37. Who amongst the following is regarded as the "Father of Taxonomy"  
 (A) Takhtajan (B) Linnaeus  
 (C) Bentham and Hooker (D) Theophrastus
38. Phylogeny tells about  
 (A) Life history of animals (B) Group of phyla  
 (C) Evolutionary history of a species from its ancestors (D) Castes of files
39. Most of the unicellular organisms are kept under  
 (A) Monera and protista (B) Monera and plantae  
 (C) Protista and plantae (D) Protista and fungi
40. Felidae and Canidae included in which order?  
 (A) Primata (B) Mammalia  
 (C) Diptera (D) Carnivora
41. The term species was coined by  
 (A) Aristotle (B) Engler  
 (C) John Ray (D) Linnaeus
42. The system of providing a name with two components is called...  
 (A) Identification (B) Binomial nomenclature  
 (C) Classification (D) Systema
43. Museum have collection of  
 (A) Preserved plant (B) Animal specimens  
 (C) Skeletons of animal (D) All of the above
44. In the five kingdom system of classification, which single kingdom out of the following can include blue-green algae, nitrogen fixing bacteria and methanogenic archaeobacteria  
 (A) Monera (B) Fungi  
 (C) Plantae (D) Protista
45. A system of classification that is based on evolution, order and ancestry is known as  
 (A) Natural system (B) Analogous system  
 (C) Phylogenetic system (D) Homologous system
46. Barophilic prokaryotes  
 (A) Grow slowly in highly alkaline frozen lakes at high altitudes  
 (B) Occur in water containing high concentrations of barium hydroxide  
 (C) Grow and multiply in very deep marine sediments  
 (D) Readily grow and divide in sea water enriched in any soluble salt of barium
47. The total number of species included in the animal kingdom are about  
 (A) 1 million (B) 2 million  
 (C) 10 million (D) 1 billion
48. Which one of the following is not a correct statement?  
 (A) A museum has collection of photographs of plants and animals.  
 (B) Key is a taxonomic aid for identification of specimens.  
 (C) Herbarium houses dried, pressed and preserved plant specimens.  
 (D) Botanical gardens have collection of living plants for reference.
49. Universal rules of nomenclature is.....  
 (A) Biological names are given in any language  
 (B) The first word in biological name represents the species while second denotes genus  
 (C) First letter of species is capital and genus start with a small letter

- (D) Both the words in biological name when hand written are separately underlined.
50. Here animal stored in living form  
 (A) Herbarium (B) Zoological parks  
 (C) Botanical gardens (D) Museum
51. Which one is species?  
 (A) Canis (B) Pisum  
 (C) Leo (D) Carnivor
52. Sequence of taxonomic categories is  
 (A) Class - phylum - tribe - order - family - genus - species (B) Division - class - family - tribe - order - genus - species  
 (C) Division - class - order - family - tribe - genus - species (D) Phylum - order - class - tribe - family - genus - species
53. In the scientific name of *Mangifera indica* L.  
 (A) Letter L. signifies latin with Indica preceding language (B) The name is reverse  
 (C) Letter L. signifies taxonomist Linnaeus (D) Letter L. is superfluous
54. In Whittaker's 'Five Kingdom Classification', eukaryotes were assigned to  
 (A) Only two of the five kingdoms (B) Only three of the five kingdoms  
 (C) Only four of the five kingdoms (D) All the five kingdoms
55. Who published the book *Species Plantarum* and provided a basis for classification of plants  
 (A) Charles Darwin (B) Robert Hook  
 (C) Carolus Linnaeus (D) Anton Leeuwenhoek
56. The complete name of a plant in binomial nomenclature has  
 (A) Three parts (words) (B) Two parts (words)  
 (C) Five parts (words) (D) One part (word)
57. Chemotaxonomy is connected with  
 (A) Classification of chemicals found in plants (B) Use of phytochemical data in systematic botany  
 (C) Application of chemicals on herbarium sheets (D) Use of statistical methods in chemical yielding plants
58. Which one of the following animals is correctly matched with its particular taxonomic category?  
 (A) Tiger Tigris, species (B) Cuttlefish mollusca, class  
 (C) Humans primata, family (D) Housefly Musca, order
59. Which one is the species  
 (A) Carnivora (B) Canis  
 (C) Familiaris (D) Canis familiaris
60. The place which enable us to learn about their food habits and behaviour of animals  
 (A) Museum (B) Herbarium  
 (C) Botanical garden (D) Zoological parks
61. Increase in body mass is considered as....  
 (A) Growth (B) Development  
 (C) Adaptation (D) None of above
62. Identify the correct sequence of taxa in Linnaean hierarchy  
 (A) Class, order, genus, species, variety (B) Class, family, species, genus, order  
 (C) Phylum, class, family, species, order (D) Species, genus, phylum, family, class
63. 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 one above the other
64. Choose correct sentence.  
 (A) In Amoeba reproduction can called its growth, (B) Metabolism is not character of every organism.  
 (C) Reproduction is character of all organism on earth. (D) Growth is not be character of non-living.
65. Plant classification proposed by Carolus Linnaeus was artificial because it was based on  
 (A) Only a few morphological characters (B) Evolutionary tendencies which are diverse  
 (C) Anatomical characters which are adaptive in nature (D) Physiological traits alongwith morphological characters
66. Keystone species are  
 (A) Species belonging to same period (B) Species that determine structure of biotic community  
 (C) Species reproducing sexually (D) Species recorded only in the fossil state
67. Which of the following is less general in characters as compared to genus?  
 (A) Species (B) Division  
 (C) Class (D) Family
68. Which covers the largest number of organisms  
 (A) Genus (B) Family  
 (C) Phylum (D) Class
69. The third name of the trinomial nomenclature is of  
 (A) Sub-genus (B) Species  
 (C) Sub-species (D) Type
70. Studies under karyotaxonomy are based upon  
 (A) Nature of DNA (B) Shape of the nucleus  
 (C) Structure or number of chromosomes (D) Contents of karyoplasm
71. Included in Solanum.  
 (A) Melongena, Nigrum (B) Mangifera, Panthera  
 (C) Felidae, Canidae (D) Nigrum, Felis
72. Floral features are commonly used for identification of angiosperms because  
 (A) Reproductive parts are more conservative (B) Flowers can be safely pressed  
 (C) Flowers are nice to work with (D) Flowers have various colours and scents
73. Algae with photosynthetic pigments possess nutrition  
 (A) Holozoic (B) Saprophytic  
 (C) Holophytic (D) Parasitic
74. X - Mountains, boulders and sand mounds do grow even they are non-living  
 Y - Growth is character of only non-living.  
 (A) X - Y correct (B) X - Y incorrect  
 (C) X - incorrect, Y - correct (D) X - correct, Y - incorrect
75. Choose the correct one  
 (i) Growth cannot be taken as a defining property of living organism.  
 (ii) Dead organism does not grow.  
 (iii) Reproduction cannot be an all inclusive defining characteristic of living organisms.  
 (iv) No non-living object is capable of replicating itself.  
 (v) Metabolism in a test tube is non-living.  
 (vi) Metabolism is a defining feature of all living organisms.  
 (A) (i) and (iii) (B) All except (v)  
 (C) All except (iii) (D) All of these
76. Two plants are taxonomically related if  
 (A) They store carbohydrate in the same type of molecule  
 (B) Both obtain energy from hydrolysis of ATP into ADP and inorganic phosphate  
 (C) Both have similarly lobed palmate leaves  
 (D) Both have pinnately veined leaves

77. Interbreeding natural population of animals are referred to as belonging to the same  
 (A) Family (B) Species  
 (C) Genus (D) Variety
78. Angler and Prantel published a phylogenetic system in monograph  
 (A) Dienaturlichen Pflanzen familien  
 (B) Historia plantarum  
 (C) Species plantarum (D) Genera plantarum
79. Identify incorrect sentence.  
 (A) Living organisms are made of chemicals  
 (B) Chemicals are constantly being made and changed into some other biomolecules  
 (C) All plant, animals and fungi and microbes exhibit metabolism  
 (D) Non-living object exhibit metabolisms
80. Which of the following is not taxon but a category  
 (A) Division (B) Angiosperms  
 (C) Polypetalae (D) Hibiscus
81. The main purpose of classification is  
 (A) To locate animals (B) To study facts of evolution  
 (C) To establish relationships (D) To study ecology of animals
82. Select the correct option from the following  
 (A) Mule can reproduce  
 (B) Worker bee undergoes reproduction to generate new progeny  
 (C) Mule and worker bee cannot reproduce  
 (D) None of above
83. .... in yeast and hydra.  
 (A) Reproduction not occur (B) Metabolism not occur  
 (C) Budding is seen (D) None of the above
84. According to latest knowledge the most accepted species concept is  
 (A) Typological species concept (B) Nominalistic species concept  
 (C) Genetic species concept (D) Polytypic species concept
85. Five kingdom classification was proposed by  
 (A) Birbal Sahni (B) Whittaker  
 (C) Aristotle (D) Oswald Tippo
86. In zoological name of an organism the first word will be  
 (A) Generic name (B) Specific name  
 (C) Name of the order (D) Family name
87. In five kingdom classification land plants are classified under  
 (A) Bryophyta, pteridophyta and spermatophytes (B) Bryophyta and tracheophyta  
 (C) Embryophyta and spermatophyta (D) Bryophyta and archaeogoniatae
88. Delete the odd one  
 (A) Growth (B) Reproduction  
 (C) Metabolism (D) Light
89. Which of the following aspects is an exclusive characteristic of living things?  
 (A) Isolated metabolic reactions occur in vitro  
 (B) Increase in mass from inside only  
 (C) Ability to sense their surroundings  
 (D) Increases in mass by accumulation of material both on surface as well as internally
90. Delete odd one.  
 (A) Mangifera (B) Indica  
 (C) Solanum (D) Triticum
91. Increase in ...X... and increase in... Y.... of individual are ....Z... characteristics of growth  
 $X - Y - Z$   
 (A) Mass – Number – Twin (B) Number – Mass – Twin single  
 (C) Mass – Number – Inside body (D) Number – Mass – Outside body
92. Which names are regarded legitimate  
 (A) Which were first proposed (B) Which are very popular  
 (C) Which have their holotypes (D) All the above
93. Aristotle is associated with  
 (A) Scale nature (B) Catarophism  
 (C) Parallelism (D) Biogenetic law
94. Binomial nomenclature system of Linnaeus means that every organism has  
 (A) One name given by two scientist  
 (B) Two names one Latin and other of a person  
 (C) Two names one scientific and other popular  
 (D) One scientific name with generic and other with specific epithet
95. All biochemical process which occur in organism body is called...  
 (A) Death (B) Development  
 (C) Reproduction (D) Metabolism
96. Cat is included in which family?  
 (A) Canidae (B) Hominidae  
 (C) Muscidae (D) Felidae
97. Growth is possible when.....  
 (A) Anabolism is lower than catabolism (B) Catabolism and anabolism rate become same  
 (C) Ratio of anabolism is more than catabolism (D) Catabolism and anabolism both are decrease.
98. Carolus Linnaeus (*Carl Linne*) was from  
 (A) Sweden (B) U.K.  
 (C) Holland (D) France
99. The suffix-phyta indicates  
 (A) Family (B) Order  
 (C) Class (D) Division
100. The label of a herbarium sheet does not carry information on  
 (A) date of collection (B) name of collector  
 (C) local names (D) height of the plant.

## ANSWER KEY

### BIOLOGY

1 - C	2 - D	3 - A	4 - B	5 - C	6 - A	7 - A	8 - D	9 - A	10 - A
11 - A	12 - D	13 - C	14 - C	15 - A	16 - D	17 - A	18 - A	19 - D	20 - C
21 - C	22 - B	23 - B	24 - C	25 - D	26 - A	27 - C	28 - B	29 - D	30 - A
31 - A	32 - D	33 - A	34 - B	35 - D	36 - D	37 - B	38 - C	39 - A	40 - D
41 - C	42 - B	43 - D	44 - A	45 - C	46 - C	47 - A	48 - A	49 - D	50 - B
51 - C	52 - C	53 - C	54 - C	55 - C	56 - B	57 - B	58 - A	59 - D	60 - D
61 - A	62 - A	63 - D	64 - C	65 - A	66 - B	67 - A	68 - C	69 - C	70 - C
71 - A	72 - A	73 - C	74 - C	75 - B	76 - A	77 - B	78 - A	79 - D	80 - A
81 - C	82 - C	83 - C	84 - D	85 - B	86 - A	87 - B	88 - D	89 - C	90 - B
91 - A	92 - D	93 - A	94 - D	95 - D	96 - D	97 - C	98 - A	99 - D	100 - D