



S-ORBIT

"Turns your life to the way of success..."

IIT-JEE | MEDICAL | Foundations

LIVING WORD

MOST IMPORTANT QUESTION

**S-ORBIT
GOLE MARKET
MAHANAGAR**



1. Who is also called the “Darwin of the 20th century”?

- (a) Lamarck
- (b) Ernst Mayr
- (c) Carolus Linnaeus
- (d) Robert May

**2. The number of species that are known and described range between _.
Fill in the blanks with the correct option from the following.**

- (a) 1.4 to 1.5 million
- (b) 1.6 to 1.7 million
- (c) 1.7 to 1.8 million
- (d) 1.9 to 2 million

3. What are the twin characteristics of growth?

- (a) increase in mass
- (b) increase in number
- (c) both a and b
- (d) none of the above

4. Growth in living organisms is from

- (a) outside

- (b) inside
- (c) both a and b
- (d) none of the above

5. Growth cannot be taken as a defining property or feature of living organisms because

- (a) all living organisms do not show growth
- (b) non living things grow from inside
- (c) non living things also grow
- (d) some living organisms do not show the process of reproduction

6. Growth is synonymous with reproduction for which of the following organisms?

- (a) unicellular algae
- (b) amoeba
- (c) bacteria
- (d) all of the above

7. Which of the following organisms multiply by fragmentation?

- (a) fungi
- (b) filamentous algae
- (c) planaria
- (d) all of the above

8. Mark the correct statement from the following

- (a) growth in living organisms is from inside
- (b) plants grow but only up to a certain age
- (c) only living organisms grow
- (d) all of the above

9. Growth and reproduction are mutually exclusive events in which of the following

- (a) plants only
- (b) animals only
- (c) higher animals and plants
- (d) lower organisms

10. Reproduction cannot be an all inclusive defining characteristic feature of living organisms because

- (a) living organisms do not show growth
- (b) many living organisms do not reproduce
- (c) non living objects are also capable of reproducing
- (d) all living organisms show a small period of reproductive phase in their life

11. Living organisms show

- (a) self replication and self regulation
- (b) evolution

- (c) response to external stimuli
- (d) all of the above

12. The sum total of all the chemical reactions occurring in the body is known as

- (a) metabolism
- (b) catabolism
- (c) anabolism
- (d) homeostasis

13. Select the incorrect statement from the following

1) NBRI (National Botanical Research Institute) is situated at Lucknow

2) Plant families like convolvulaceae and solanaceae are included in other polynomials mainly based on floral characters

3) All living organisms – present, past and future are linked to one another by sharing of common genetic material but to varying degrees

4) Order solanum, datura and petunia are placed in the family solanaceae

- (a) 1 only
- (b) 2 and 4
- (c) 4 only
- (d) 2 and 3

14. Which of the following statements is incorrect?

- (a) all plants, animals, fungi and microorganisms exhibit metabolism
- (b) interactions among the molecular components of the organelles result into the properties of cell organelles
- (c) properties of cellular organelles are present in the molecular constituents of the organelles
- (d) cellular organisation of the body is the defining feature of life forms

15. Properties of organs are

- (a) present in the constituent cells
- (b) due to different cells in them
- (c) due to their similar origin
- (d) a result of interaction among the constituent issues

16. Growth by cell division occurs ___ in plants and ___ in animals

- (a) continuously, only up to a certain age
- (b) only up to a certain age, continuously
- (c) continuously, continuously
- (d) never, continuously

17. Which set of the following organisms multiply by fragmentation?

- (a) planaria, hydra, yeast
- (b) echinoderms fungi bacteria
- (c) fungi, filamentous algae, protonema of mosses

(d) amoeba, hydra, virus

18. Which of the following organisms do not reproduce?

(a) mules

(b) sterile worker bees

(c) sterile human couple

(d) all of the above

19. Which of the following aspects is an exclusive characteristic of living organisms?

(a) isolated metabolic reactions occur in vitro

(b) increase in mass is from inside only

(c) increase in mass by accumulation of material both on surface as well as internally

(d) perception of events happening around their environment and their memory

20. Which of the following is self conscious?

(a) human being

(b) salamander

(c) cat

(d) housefly

21. Metabolic reactions take place

- (a) in vitro
- (b) in Vivo
- (c) both a and b
- (d) none of the above

22. Which of the following organisms can sense and respond to environmental cues?

- (a) eukaryotes only
- (b) prokaryotes only
- (c) both a and b
- (d) none of the above

23. Growth, development and functioning of a living organism is due to

- (a) an increase in Gibbs free energy
- (b) a decrease in entropy
- (c) metabolism
- (d) adaptation

24. Living organisms can be exceptionally differentiated from non living things on the basis of which of the following abilities?

- (a) reproduction and excretion
- (b) growth and movement
- (c) responsiveness in touch and temperature

(d) interaction with the environment and progressive evolution

25. What are the two components of Binomial Nomenclature?

(a) the generic name

(b) specific epithet

(c) both a and b

(d) none of the above

26. In *Mangifera Indica* Linn, what does Linn stand for?

(a) Latin

(b) Lamarck

(c) Linnaeus

(d) lower organism

27. Alsatian is a breed of?

(a) dog

(b) cat

(c) donkey

(d) horse

28. Modern taxonomy studies require which of the following?

(a) knowledge of external and internal structure

(b) knowledge development process and ecological information of organism

- (c) knowledge of structure of cell
- (d) all of the above

29. Which of the following terms includes all other terms?

- (a) classification
- (b) nomenclature
- (c) taxonomy
- (d) systematics

30. What are groups of plants or animals with similar traits of any rank called?

- (a) species
- (b) order
- (c) genus
- (d) taxon

31. Binomial Nomenclature means

- (a) two names; one given by zoologist, other by botanist
- (b) one scientific name consisting of a generic name and a specific epithet
- (c) two names; one french, other latinized
- (d) two names; one scientific, other local

32. Basic unit of taxonomic hierarchy is

- (a) species
- (b) kingdom
- (c) class
- (d) phylum

33. Botanical name of mango is

- (a) *Mangifera indica*
- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Panthera leo*

34. Botanical name of potato is

- (a) *Mangifera indica*
- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Panthera leo*

35. Zoological name of lion is

- (a) *Mangifera indica*
- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Panthera leo*

36. The branch connected with characterisation, nomenclature, identification and classification is

- (a) ecology
- (b) taxonomy
- (c) anatomy
- (d) morphology

37. The third name in trinomial nomenclature is

- (a) genus
- (b) sub genus
- (c) subspecies
- (d) species

38. In Binomial Nomenclature

- (a) genus and species both are printed in italics
- (b) both the initial letters in genus and species is capitalised
- (c) genus is written after the species
- (d) genus and species may be the same

39. As we go higher from species to kingdom, the number of common characteristics/features/similar traits goes on

- (a) remains the same
- (b) decreasing

- (c) increasing
- (d) none of the above

40. Binomial Nomenclature was given by

- (a) Ernst Mayr
- (b) Lamarck
- (c) Carolus Linnaeus
- (d) Darwin

41. Taxon is used for

- (a) the ranks of species and genus
- (b) the species epithet only
- (c) the ranks upto phylum
- (d) any rank of taxonomic Hierarchy

42. Which taxonomic aid provides information for the identification of names of species found in a particular area?

- (a) monograph
- (b) manual
- (c) catalogue
- (d) key

43. Indian Botanical Garden is located in

- (a) Howrah
- (b) Bangalore
- (c) Hyderabad
- (d) Mysore

44. The famous botanical garden "Kew" is located in

- (a) England
- (b) America
- (c) Lucknow
- (d) Howrah

45. Identify the correct sequence of taxonomic categories

- (a) species – order – kingdom – phylum
- (b) order – genus – phylum – species
- (c) family – species – class – genus
- (d) species – genus – order – phylum

46. Which of the following biological name is wrongly written

- (a) *Triticum aestivum*
- (b) *Felis domesticus*
- (c) *Apis indica*
- (d) *Mangifera Indica*

47. Descending arrangement of categories is called

- (a) characterization
- (b) taxonomy
- (c) hierarchy
- (d) classification

48. Petunia is

- (a) species
- (b) sub genus
- (c) subspecies
- (d) genus

49. In hierarchy of classification order is present between

- (a) family and genus
- (b) family and species
- (c) family and class
- (d) Phylum and kingdom

50. Select the incorrect statement from the following

- (a) ICZN stands for international code of zoological nomenclature
- (b) each statement in key is known as lead
- (c) taxonomic keys are tools that help in identification based on characteristics

(d) Ernst Mayr used Systema Naturae as the title of his Publication

51. In which of the following do we store dry plants for information purposes?

- (a) monograph
- (b) museum
- (c) key
- (d) herbarium

52. Select the incorrect statement from the following

- (a) taxonomic studies are useful in agriculture, Forestry and industries
- (b) closely related species differ in morphological features
- (c) genus comprises a group of related species
- (d) notochord and ventral hollow neural system are a common feature of the phylum chordata

53. ICBN stands for

- (a) international committee for biological naming
- (b) international code for botanical nomenclature
- (c) international code for biological nomenclature
- (d) international code for biological naming

54. Zoological name of tiger is

- (a) Mangifera indica

- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Panthera tigris*

55. Zoological name of leopard is

- (a) *Mangifera indica*
- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Panthera pardus*

56. Zoological name of house fly is

- (a) *Mangifera indica*
- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Musca domestica*

57. Zoological name of man is

- (a) *Mangifera indica*
- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Homo sapiens*

58. Botanical name of wheat is

- (a) *Mangifera indica*
- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Triticum aestivum*

59. Zoological name of cat is

- (a) *Mangifera indica*
- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Felis domesticus*

60. Botanical name of makoi is

- (a) *Mangifera indica*
- (b) *Solanum tuberosum*
- (c) *Solanum melongena*
- (d) *Solanum nigrum*

61. Potato and brinjal belong to the genus

- (a) *Allium*
- (b) *Solanum*
- (c) *Brassica*
- (d) *Mangifera*

62. Genera Petunia and Datura belong to the family

- (a) Solanaceae
- (b) Liliaceae
- (c) Fabaceae
- (d) none of the above

63. Family Solanaceae and Convolvulaceae belong to which of the following the order

- (a) Diptera
- (b) Polymoniales
- (c) Poales
- (d) Dicot

64. Common features of chordata are

- (a) presence of notochord in any stage of life
- (b) paired pharyngeal gill slits
- (c) dorsal hollow neural system
- (d) all of the above

65. Which of the following is a common feature of the category insecta?

- (a) exoskeleton of cutin
- (b) presence of ostium

- (c) three pairs of jointed legs in the thoracic region
- (d) presence of coxal gland for excretion

66. Which of the following represents the family of mango?

- (a) poaceae
- (b) anacardiaceae
- (c) poales
- (d) sapindales

67. Housefly belongs to the order

- (a) diptera
- (b) carnivora
- (c) primata
- (d) insecta

68. A museum has a collection of which of the following

- (a) preserved plants
- (b) preserved animals
- (c) skeleton of animals
- (d) all of the above

69. Which of the following animals are usually stuffed and preserved?

- (a) large birds

- (b) mammals
- (c) small lizards
- (d) all of the above

70. Zoological parks are for which of the following?

- (a) wild animals
- (b) endangered plants
- (c) pet animals
- (d) domestic animals

71. Which of the following is a/are feature/features of zoological parks?

- (a) place where we can learn about the wild animal's food habits
- (b) place where we can learn about the wild animal's behaviour
- (c) place where wild animals are kept in a protected environment under human care
- (d) all of the above

72. Keys are based on contrasting characters generally in pairs called

- (a) dimer
- (b) couplet
- (c) duplex
- (d) none of the above

73. Which of the following is incorrect about the taxonomical aid keys?

- (a) used for identification of plants and animals based on similarities and dissimilarities
- (b) each statement in the key is called a lead
- (c) keys are generally analytical in nature
- (d) used for identification of plants and animals based on similarities only

74. Flora contains actual account of habitat and distribution of

- (a) animals in a particular area
- (b) plants in a particular area
- (c) both plants and animals in a particular area
- (d) none of the above

75. Monograph contain information on

- (a) family
- (b) species
- (c) habitat and distribution of plants of a particular area
- (d) any one taxon

76. Manuals contain information on

- (a) any one taxon
- (b) habitat and distribution of animals found in a particular area

- (c) identification of names of species found in a particular area
- (d) habitat and distribution of plants found in a particular area

77. Organisms vary in

- (a) their habitat
- (b) their size and colour
- (c) their physiological and morphological features
- (d) all of the above

78. Live specimens of organisms are found in which of the following

- (a) museum
- (b) herbarium
- (c) botanical gardens and zoological parks (zoos)
- (d) all of the above

79. The name of a plant written on a herbarium sheet is it's

- (a) local name
- (b) english name
- (c) botanical name
- (d) all of the above

80. Tiger, dog and cat are placed in the order

- (a) primata

- (b) carnivora
- (c) mammalia
- (d) chordata

81. Monkey, gorilla and gibbons belong to which of the following order?

- (a) carnivora
- (b) primata
- (c) mammalia
- (d) hominidae

82. In plants, families are characterised on the basis of

- (a) vegetative structures
- (b) reproductive features
- (c) both a and b
- (d) none of the above

83. Single horned rhinoceros are found in which of the following?

- (a) Indira Gandhi Zoological Park
- (b) Nehru Zoological Park
- (c) Kaziranga National Park
- (d) Gir National Park

84. Herbarium sheet provides information on which of the following?

- (a) family of plant
- (b) collector's name
- (c) local, english and botanical name
- (d) all of the above

85. Indian rhinoceros is a natural inhabitant of which of the following states in India?

- (a) Maharashtra
- (b) Tamil Nadu
- (c) Karnataka
- (d) Assam

86. Which of the following is a defining property of living organisms?

- (a) cellular organisation of the body
- (b) consciousness
- (c) both a and b
- (d) none of the above

87. Which of the following is a correct statement?

- (a) both the words in a biological name are printed in bold to indicate their Latin origin
- (b) biological names are generally in Greek

(c) the first word in a biological name represents this specific epithet while the second component denotes this genus

(d) the first word denoting the genus starts with a capital letter by the specific epithet starts with a small letter

88. Which of the following is not a correct statement?

(a) human being is the only organism who is aware of himself or herself, that is, has self consciousness

(b) the most obvious and technically complicated feature of all living organisms is the ability to sense their surrounding or environment and respond to these stimuli

(c) prokaryotes cannot respond to environmental cues

(d) consciousness is a defining property of living organisms

89. Biodiversity is

(a) number and type of organisms present on earth

(b) number and type of plants present on earth

(c) number and type of animals present on earth

(d) none of the above

90. What is the basis of modern taxonomic studies?

(a) external and internal structure along with the structure of cell

(b) development process of organisms

(c) ecological information of organisms

(d) all of the above

91. Which of the following statements is false?

- (a) systematics takes into account the evolutionary relationships between organisms
- (b) the word systematics is derived from latin word systema
- (c) systematics includes identification and nomenclature but not classification
- (d) the Latin word systema means the systematic arrangement of organisms

92. Which of the following statements is true?

- (a) a group of individual organisms with fundamental similarities is known as genus
- (b) as we go from species to kingdom the number of common characteristics remains the same
- (c) as we go from kingdom to species the number of common characteristics decreases
- (d) as we go from species to kingdom the number of common characteristics decreases

93. Which of the following statements is incorrect?

- (a) herbaria serves as a quick referral system in taxonomic studies
- (b) botanical gardens have collections of dead and living plants for reference
- (c) plants in botanical gardens are labelled to indicate their botanical name and family

(d) museums have collections of preserved plants and animal species for study and reference

94. Mark the correct statement from the following

(a) monographs contain information on any one taxon

(b) manuals contain information about the habitat and distribution of plants of a given area

(c) monographs contain information for identification of names of species found in a given area

(d) key is used for identification of plants based on similarities and dissimilarities

95. Choose the correct statement from the following

(a) all living organisms grow

(b) all living organisms have self consciousness

(c) all living organisms reproduce

(d) all living organisms are not self regulating

96. Which of the following is a defining feature of all living organisms?

(a) reproduction

(b) growth

(c) self consciousness

(d) metabolism

97. Which of the following is a false statement?

(a) classification is the process by which anything is grouped into convenient categories based on some easily observable characteristics

(b) nomenclature is important because there is a need to standardise the naming of living organisms such that a particular organism is known by the same name all over the world

(c) all living organisms cannot be classified into different taxa

(d) characterisation, identification classification and nomenclature and the processes that are basic to taxonomy

98. Which of the following is a correct statement?

(a) scientific name of leopard is *Panthera leo*

(b) scientific name of tiger is *Panthera pardus*

(c) potato and brinjal are two different species but they belong to the genus *solanum*

(d) *felis* includes dogs

99. The incorrect statement from the following is?

(a) the highest category is kingdom

(b) the lowest category is species

(c) lower the taxa, more are the characteristics that the members within the taxon share

(d) higher the taxa, more are the characteristics that the members within the taxon share

100. Man belongs to which of the following families?

- (a) muscidae
- (b) hominidae
- (c) mammalia
- (d) primata

1-b	2-c	3-c	4-b	5-c
6-d	7-d	8-a	9-c	10-b
11-d	12-a	13-c	14-c	15-d
16-a	17-c	18-d	19-b	20-a
21-c	22-c	23-c	24-d	25-c
26-c	27-a	28-d	29-d	30-d

31-b	32-a	33-a	34-b	35-d
36-b	37-c	38-a	39-b	40-c
41-d	42-b	43-a	44-a	45-d
46-c	47-d	48-c	49-c	50-d
51-d	52-d	53-b	54-d	55-d
56-d	57-d	58-d	59-d	60-d

61-b	62-a	63-b	64-d	65-c
66-b	67-a	68-d	69-d	70-a
71-d	72-b	73-d	74-b	75-d
76-c	77-d	78-c	79-d	80-b
81-b	82-c	83-c	84-d	85-d
86-c	87-d	88-c	89-a	90-d
91-c	92-d	93-b	94-a	95-a
96-d	97-c	98-c	99-d	100-b