

THE LIVING WORLD

1. Choose the correct statement

- 1) Growth is exclusive feature of living organisms
- 2) Non-living organisms do not show growth
- 3) Living beings show growth due to deposition of material on their surface
- *4) Growth is internal in living organisms

2. Reproduction itself is growth in

- | | | | |
|------------------|-------------------|-------------|---------------|
| I. Chlamydomonas | II. Bacteria | III. Amoeba | IV. Mangifera |
| 1) I, II, IV | *2) All except IV | 3) I, II | 4) only II |

3. Choose the wrong statement

- 1) Animals show growth only upto certain age
- 2) Plants show growth as long as they live
- *3) In animals the lost cells are not replaced
- 4) Increase in size of cell is also growth.

4. Reproduction is absent in

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|--------------|-----------|-----------------|-------------|
| 1) Chlorella | 2) Amoeba | *3) Worker Bees | 4) Bacteria |
|--------------|-----------|-----------------|-------------|

5. Filamentous algae and fungi vegetatively reproduce by

- | | | | |
|-------------------|------------|------------|--------|
| *1) Fragmentation | 2) Budding | 3) Conidia | 4) All |
|-------------------|------------|------------|--------|

6. Hydra vegetatively reproduces by

- | | | | |
|------------------|-------------|--------------|-----------------|
| 1) Fragmentation | *2) Budding | 3) Zoospores | 4) Aplanospores |
|------------------|-------------|--------------|-----------------|

7. Tissue culture is a type of

- | | |
|------------------------|-----------------------------|
| 1) Parthenogenesis | *2) Vegetative reproduction |
| 3) Sexual reproduction | 4) Asexual reproduction |

8. Match the following

List – I	List – II	A	B	C	D
A) Reproduction in Bacteria	I) Spores	1) III	IV	V	II
B) Reproduction in Yeasts	II) Fragmentation	2) IV	III	I	II
C) Reproduction in Algae like Chlamydomonas	III) Cell Division	*3) III	IV	I	II
D) Reproduction in the structure Protonema	IV) Budding	4) III	IV	II	I
	V) Grafting				

9. [A]: Vegetative reproduction is more common in Plants than Animals

[R]: Amoeba reproduces by cell division

- 1) Both A and R are true and R is the correct explanation of A
- *2) Both A and R are true but R is not the correct explanation of A
- 3) A is true but R is false
- 4) A is false but R is true

10. Only one parent is involved in the following reproduction

- 1) Vegetative propagation
- 2) Asexual reproduction
- 3) Sexual reproduction
- *4) 1 and 2

11. In metabolism

- I. Larger molecules are formed from smaller molecules
- II. Smaller molecules are formed from larger molecules.
- III. One biomolecule is converted into another biomolecule.
- IV. Cell organelles are not involved

- 1) I, II, III are incorrect
- 2) II, III, IV are correct
- 3) I and II are wrong
- *4) only IV is wrong

12. Metabolism is not shown by

- 1) Bacteria
- 2) Algae
- 3) Mycoplasmas
- *4) Viruses

13. Light influences reproduction in

- 1) Flowering plants
- 2) Animals
- 3) Bryophytes
- *4) All

14. [A]: Plants are self-conscious

[R]: Plants exhibit awareness to surroundings.

- 1) Both A and R are true and R is the correct explanation of A
- 2) Both A and R are true but R is not the correct explanation of A
- 3) A is true but R is false
- *4) A is false but R is true

15. The properties of cells is due to interactions between

- 1) Cells
- 2) Tissues
- *3) Cell organelles of cell
- 4) Fattyacids of lipids

16. The genetic material in organisms from Bacteria to Man is

- 1) Protein
- 2) Enzyme
- 3) RNA
- *4) DNA

17. The number of species of living organisms on this planet is

- 1) 17 million
- 2) 18 million
- 3) 1.9 billion
- *4) 1.78 million

18. Match the following

List – I	List – II
A) Herbarium	I) Species
B) Flora	II) Linnaeus
C) SystemaNaturae	III) Keys
D) Taxon	IV) Dried plant specimen
	V) Dried animal specimen

- A B C D
- *1) IV III II I
- 2) V III II I
- 3) IV V I II
- 4) IV II II V

19. Density of biodiversity is more in

- *1) Tropical forests
- 2) Temperate forests
- 3) Grass lands
- 4) Crop lands

20. Identification of plants is usually done with the help of

- 1) Museum 2) Flora 3) Herbaria *4) 2 and 3

21. ICBN is

- 1) International court for botanical nomenclature
 2) International class of Botanical nomenclature
 3) International code of Biological nomenclature
 *4) International code for Botanical nomenclature

22. Choose the correct statement

- 1) A plant can be given more than one scientific names
 2) Plant names can be given in any language
 3) Plant names must be given in English
 *4) Plant binomial in Italics represents its Latin origin

23. This is not a part of taxonomic hierarchy

- 1) Species 2) Genus 3) Order *4)Lead

24. Lowest taxonomic category is

- *1) Species 2) Genus 3) Family 4) Order

25. Choose the correct statement

- 1) A species name of one genus should not be mentioned in some other genus
 *2) A species name given to plant in the genus should not be given to some other plant in the same genus
 3) Generic names of a family can be given to generic names of some other family of the same kingdom
 4) A family can compose of more number of genera than its species.

26. Match the following

List – I	List – II	A	B	C	D
A) Potato	I) <i>Triticum</i>	1) V	IV	I	II
B) Tobacco	II) <i>Mangifera</i>	2) IV	V	I	III
C) Mango	III) <i>Datura</i>	3) IV	IV	II	I
D) Wheat	IV) <i>Solanum</i>	*4) IV	V	II	I
	V) <i>Nicotiana</i>				

27. [A]: Individuals of a genus show more similarities than differences.

[R]: Mango and Potato show more similarities than Potato and Nicotiana.

- 1) Both A and R are true and R is the correct explanation of A
 2) Both A and R are true but R is not the correct explanation of A
 *3) A is true but R is false
 4) A is false but R is true

28. Convolvulaceae belongs to the order

- *1) Polemoniales 2)Poales 3)Malvales 4) Rosales

29. **Mangifera belongs to the family**

- 1) Solanaceae 2) Polemoniaceae *3) Anacardiaceae 4) Malvaceae

30. **Malvales belongs to the class**

- *1) Dicotyledonae 2) Monocotyledonae 3) Gymnospermae 4) Coniferae

31. **Diptera is the order to which the following organism belongs**

- 1) *Homo sapiens* *2) *Muscadomestica* 3) *Mangifera indica* 4) *Triticum vulgare*

32. **It has a collection of preserved plant specimens**

- I. Herbarium II. Botanical Gardens III. Museum IV. Manual
 1) I only 2) II, III *3) I, III 4) III, IV

33. **Each statement in a doublet is called as**

- 1) Ramet 2) Comet *3) Lead 4) Deed

34. **Choose the correct statement.**

- 1) In a flora only one key is provided for all the plants of an area
 2) A key is based on both similarities and differences among the individuals of a species.
 *3) A key is based on both similarities and differences among the individuals of a genus
 4) Keys are provided in herbaria

35. **Match the following**

List – I	List – II	A	B	C	D
A) Distribution of plants of a given area	I) Museum	*1) III	IV	V	I
B) Identification of names of species of an area	II) Herbaria	2) III	IV	V	II
C) Information about only one taxon	III) Flora	3) IV	V	II	I
D) Usage of preservatives	IV) Manuals	4) IV	I	III	II
	V) Monographs				

36. **[A]: Royal Botanical Gardens is international center for Plant Identification.**

[R]: It has largest collection of living plant specimens

- 1) Both A and R are true and R is the correct explanation of A
 *2) Both A and R are true but R is not the correct explanation of A
 3) A is true but R is false
 4) A is false but R is true

37. **The smallest taxon with relatively more differences than similarities among the individuals.**

- 1) Species 2) Genus 3) Class *4) Order

38. **The largest taxon with more similarities than differences is**

- *1) Family 2) Order 3) Species 4) Genus

39. **Sapindales is the order of**

- 1) House fly 2) Man *3) Mango 4) Wheat

40. Phylum of animal classification is equivalent to the following of plant classification

- 1) Class *2) Division 3) Order 4) Family

41. A group of different cells is studied in

- *a) Histology b) Anatomy c) Cytology d) Cell Biology

42. Cytology deals with the study of

- I. Cell organelles II. Cell functions III. Cell multiplication

- a) I only b) II and III only c) I and II only *d) I, II, III

43. Match the following

List – I	List – II
A) Lichenology	I) Amphibians of the Plant Kingdom
B) Phycology	II) Heterotrophic Thallophytes
C) Mycology	III) Autotrophic thallophytes
D) Bryology	IV) Symbiotic thallophytes
	V) Vascular cryptogams

- A B C D
- a) IV V II I
- b) IV II I III
- *c) IV III II I
- d) V IV I II

44. [A]: Mutations are studied in Genetics

[R]: All changes noticed in an organism are inheritable

- a) Both A and R are true and R is the correct explanation of A
 b) Both A and R are true but R is not the correct explanation of A
 *c) A is true but R is false
 d) A and R are false

45. Absorption of minerals is studied in

- a) Cytology *b) Physiology c) Ecology d) Phytogeography

46. The branch of biology that has evolved by using the principles of Physics and Chemistry is

- a) Genetics b) Palynology *c) Molecular biology d) all

47. Match the following

List – I	List – II
A) Formation of gametes	I) Plant ecology
B) Structure of Microspores	II) Palaeobotany
C) Vascular cryptogams	III) Embryology
D) Relationship between plants and environment	IV) Pteridology
	V) Palynology

- A B C D
- a) III V IV II
- *b) III V IV I
- c) IV III I II
- d) III IV V I

48. [A]: Morphology is useful in classification of plants.

[R]: Taxonomy mainly uses the characters of various organs of the plant for assigning them to various groups.

- *a) Both A and R are true and R is the correct explanation of A
 b) Both A and R are true but R is not the correct explanation of A
 c) A is true but R is false
 d) A and R are false

49. The following branch of botany is more useful in understanding the course of evolution of plants.

- a) Palynology b) Embryology c) Physiology *d) Palaeobotany

50. Plants with undifferentiated body are studied in

- a) Phycology b) Mycology c) Lichenology *d) All

51. Match the following

List – I	List – II
A) Petro plant	I) <i>Anabaena</i>
B) Medicinal plant	II) <i>Spirulina</i>
C) Biofertiliser	III) <i>Pongamia</i>
D) Single cell Protein	IV) <i>Digitalis</i>
	V) <i>Penicillium</i>

- A B C D
 *a) III IV I II
 b) III V II I
 c) IV V III I
 d) V IV I III

52. [A]: Plant Physiology helped for the development of Agriculture.

[R]: Knowledge obtained in Mineral nutrition studies helped to devise methods to break dormancy in plants.

- a) Both A and R are true and R is the correct explanation of A
 b) Both A and R are true but R is not the correct explanation of A
 *c) A is true but R is false
 d) A and R are false

53. The term Botany is obtained from the

- 1) Latin word Bouskein 2) Greek word Botane
 3) Roman word Botane *4) Greek word Bouskein

54. The first book on Agriculture is

- 1) Atharvanaveda *2) KrishiParasaram
 3) Vrikshayurveda 4) de HistoriaPlantarum

55. Herbals were written mainly in the following century.

- 1) 19th century 2) 18th century *3) 17th century 4) 15th century

56. Father of Botany is

- 1) Parasara 2) Aristotle 3) Socrates *4) Theophrastus

57. Sexual system of classification was proposed by

- *1) Linnaeus 2) Parasara 3) Bauhin 4) Theophrastus

58. One of the following carried out experiments on *Pisumsativum*.

- 1) Bauhin 2) Stephen Hales *3) Mendel 4) Grew

59. Camararius described

- 1) Sexual reproduction in Bacteria *2) Sexual reproduction in plants
 3) Asexual reproduction in plants 4) Sexual reproduction in Animals

60. Match the following

List – I	List – II	A	B	C	D
A) Petro plant	I) <i>Spirulina</i>	1) III	II	I	IV
B) Medicinal plant	II) <i>Pongamia</i>	*2) II	IV	I	III
C) SCP	III) <i>Rhizobium</i>	3) II	V	I	III
D) Biofertilizer	IV) <i>Digitalis</i>	4) I	V	II	III
	V) <i>Penicillium</i>				

61. [A]: Wodehouse was a palynologist.

[R]: He studied about microspores of Spermatophytes.

- *1) Both A and R are true and R is the correct explanation of A
- 2) Both A and R are true but R is not the correct explanation of A
- 3) A is true but R is false
- 4) A is false but R is true

62. This is used as food for astronauts

- 1) *Jatropha*
- *2) *Chlorella*
- 3) *Arnica*
- 4) *Ocimum*

63. Micropropagation is

- 1) Production of bacteria
- 2) Culturing microbes
- *3) raising plants in large numbers on nutrient media under controlled conditions by growing their tissue
- 4) Culturing bacteria in microenvironment.

64. Gene was artificially synthesized by

- *1) Khorana
- 2) Nirenberg
- 3) Holley
- 4) Crick

65. [A]: Sumner contributed for the development of plant physiology

[R]: He crystallized the enzyme urease.

- *1) Both A and R are true and R is the correct explanation of A
- 2) Both A and R are true but R is not the correct explanation of A
- 3) A is true but R is false
- 4) A is false but R is true