

Pages 9-12, 169-173

1. spontaneous generation or abiogenesis
2. Redi, flies
3. Needham, the right conditions
4. Spallanzani, wrong
5. Pasteur
6. control
7. manipulated, responding, controlled
8. Robert Hooke
9. Anton van Leeuwenhoek
10. Matthias Schleiden
11. Theodor Schwann
12. Rudolf Virchow
13. cell theory, cells, structure and function, existing
14. prokaryotic
15. eukaryotic

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Pages 170-181

16. compound
17. Electron
18. TEM and SEM
19. nucleus, DNA
20. nucleolus
21. cytoplasm
22. cell wall, membrane
23. ribosomes
24. endoplasmic reticulum, SER and RER
25. Golgi Apparatus
26. Lysosomes
27. vacuoles
28. mitochondria
29. chloroplasts
30. cytoskelton
31. microtubules and microfilaments
32. centrioles

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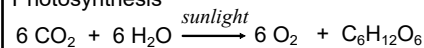
Cell membrane review

- | | |
|---|---------------------------|
| 1. cell membrane | 12. Osmosis |
| 2. lipid bilayer | 13. isotonic |
| 3. protein molecules | 14. Hypertonic |
| 4. carbohydrates molecules | 15. Hypotonic |
| 5. Fluid mosaic model | 16. facilitated diffusion |
| 6. cell walls | 17. active transport |
| 7. solutes | 18. endocytosis |
| 8. solvent | 19. phagocytosis |
| 9. diffusion | 20. pinocytosis |
| 10. equilibrium | 21. exocytosis |
| 11. selectively permeable or semi-permeable | 22. photosynthesis |
| | 23. glycolysis |
| | 24. cellular respiration |

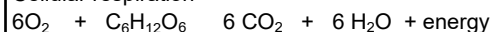
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25.

Photosynthesis



Cellular respiration



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Answers to Classification, Bacteria, Protists and Fungi

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|--|------------------------------|
| 1. classification | 13. shape; walls; nutrition |
| 2. Taxonomy | 14. toxins |
| 3. Aristotle | 15. bacilli; cocci; spirilla |
| 4. Carolus Linnaeus; binomial nomenclature | 16. Gram |
| 5. Kingdom, Phylum, Class, Order, Family, Genus, Species | 17. positive |
| 6. species | 18. negative, red |
| 7. Animalia; Plantae | 19. flagella; cilia |
| 8. Protista | 20. heterotrophic |
| 9. Fungi | 21. autotrophic |
| 10. Monera | 22. binary fission |
| 11. Eubacteria; Archaeobacteria | 23. conjugation |
| 12. Eukarya; Bacteria; Archaea | |

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- | | |
|--|------------------------------|
| 24. endospore | 37. algae |
| 25. Viruses | 38. Euglena; eyespots |
| 26. reproduce; infecting | 39. fungus-like |
| 27. viruses | 40. eukaryotic; chitin |
| 28. living; cells; not alive | 41. absorb |
| 29. Protists | 42. hyphae |
| 30. unicellular | 43. mycelium |
| 31. Heterotrophs | 44. fruiting body; spores |
| 32. Photosynthesizers | 45. Fairy rings |
| 33. Decomposers; parasites | 46. asexually; sexually |
| 34. zooflagellates; sarcodines; ciliates; sporozoans | 47. hyphae; spores |
| 35. pseudopods | 48. mating; spores |
| 36. contractile | 49. everywhere |
| | 50. Molds; temperature; food |
| | 51. wind; animals |

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- Plant Review (Page 551-568)
- | | |
|-----------------------------------|---------------------------------|
| 1. cellulose | 19. stems |
| 2. chlorophyll | 20. Club mosses |
| 3. mosses | 21. Horsetails |
| 4. 90% | 22. Ferns, rhizomes, fronds |
| 5. Flowering Plants (angiosperms) | 23. wet |
| 6. non vascular plants | 24. gymnosperms and angiosperms |
| 7. low temperatures, | 25. gymnosperm |
| 8. rhizoids | 26. angiosperm |
| 9. Liverworts, asexually | 27. cones |
| 10. Hornworts | 28. flowers |
| 11. Vascular tissue | 29. pollen grain |
| 12. Xylem | 30. insects |
| 13. Phloem | 31. seed |
| 14. Lignin | 32. embryo |
| 15. horsetails | 33. conifers |
| 16. roots | 34. spruces |
| 17. leaves | 35. habitats, needles, |
| 18. veins | 36. fruit |
| | 37. monocot and dicot |

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- Pg 612
38. sepals
 39. petals
 40. anther, filament, stamen
 41. filament
 42. anther
 43. carpals
 44. ovary
 45. style
 46. stigma

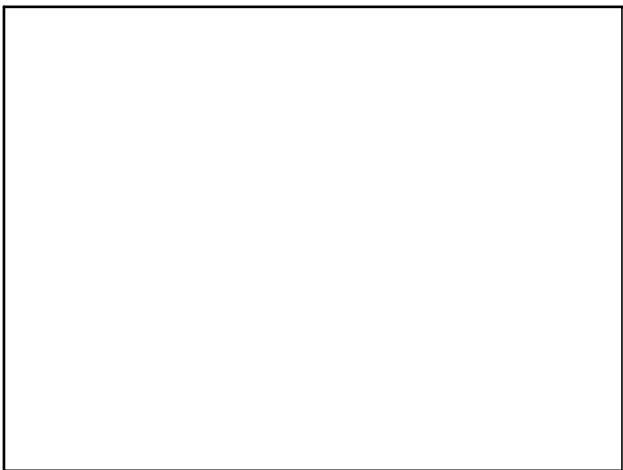
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- Animal Review (Page 657-667)
- | | |
|------------------------------|---------------------------------|
| 1. multicellular | 19. Sponges |
| 2. invertebrates,vertebrates | 20. sessile |
| 3. respiration, reproduction | 21. no mouth |
| 4. zygote | 22. asymmetrical |
| 5. blastula | 23. central |
| 6. blastopore | 24. Choanocytes |
| 7. digestive | 25. ostia |
| 8. protostome | 26. Osculum |
| 9. deuterostome | 27. respiration |
| 10. three | 28. spicules |
| 11. Endoderm | 29. archaeocytes |
| 12. Mesoderm | 30. filter feeders |
| 13. Ectoderm | 31. Digestion |
| 14. symmetry | 32. Oxygen, carbon dioxide |
| 15. Radial symmetry | 33. Sexual, pore, archaeocytes, |
| 16. Bilateral symmetry | 34. larva |
| 17. Cephalization | 35. motile |
| 18. body cavity | 36. Budding, Gemmules |

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- Animal Review (Page 657-667)
- | | |
|--------------------------------|-------------------------------|
| 37. Cnidarians | 58. parasitic |
| 38. Cnidocytes | 59. diffusion |
| 39. nematocyst | 60. ganglia |
| 40. corals | 61. Internal fertilization |
| 41. radially | 62. setae |
| 42. polyp, medusa | 63. coelom |
| 43. gastrovascular, mouth | 64. pharynx, esophagus,crop |
| 44. extracellular | gizzard |
| 45. body walls | 65. closed circulatory system |
| 46. nerve net | 66. clitellum,cocoon |
| 47. hydrostatic skeleton | 67. hookworms |
| 48. budding, eggs | |
| 49. Flatworms, Roundworms | |
| Segmented Worms | |
| 50. acoelomates, cephalization | |
| 51. Pharynx | |
| 52. diffusion, flame cells | |
| 53. ganglia, eyespots | |
| 54. hermaphrodites | |
| 55. sexual | |
| 56. asexual | |
| 57. pseudocoelom, anus | |

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Attachments

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