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

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25.

Photosynthesis

$$6\,CO_2 + 6\,H_2O \xrightarrow{sunlight} 6\,O_2 + C_6H_{12}O_6$$

Cellular respiration

$$6O_2 + C_6H_{12}O_6 \quad 6\,CO_2 + 6\,H_2O + \text{energy}$$

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Answers to Classification, Bacteria, Protists and Fungi

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

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

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Plant Review (Page 551-568)

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

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

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Animal Review (Page 657-667)

37. Cnidarians
38. Cnidocytes
39. nematocyst
40. corals
41. radially
42. polyp, medusa
43. gastrovascular, mouth
44. extracellular
45. body walls
46. nerve net
47. hydrostatic skeleton
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
58. parasitic
59. diffusion
60. ganglia
61. Internal fertilization
62. setae
63. coelom
64. pharynx, esophagus,crop gizzard
65. closed circulatory system
66. clitellum,cocoon
67. hookworms

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Attachments

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