

Photosynthesis and Cellular Respiration PRACTICE TEST

Answer Section

MULTIPLE CHOICE

1. ANS: A PTS: 1 DIF: L1 REF: p. 201
OBJ: 8.1.1 Explain where plants get the energy they need to produce food.
NAT: C.5.a | C.5.b | C.5.d | C.5.f STA: BL.6.d | BL.6.e
KEY: knowledge
2. ANS: B PTS: 1 DIF: L1 REF: p. 201
OBJ: 8.1.1 Explain where plants get the energy they need to produce food.
NAT: C.5.a | C.5.b | C.5.d | C.5.f STA: BL.6.c KEY: knowledge
3. ANS: C PTS: 1 DIF: L2 REF: p. 202
OBJ: 8.1.2 Describe the role of ATP in cellular activities. NAT: C.1.b | C.5.a | C.5.f
STA: BL.1.i KEY: comprehension
4. ANS: D PTS: 1 DIF: L2 REF: p. 202
OBJ: 8.1.2 Describe the role of ATP in cellular activities. NAT: C.1.b | C.5.a | C.5.f
STA: BL.1.i KEY: comprehension
5. ANS: D PTS: 1 DIF: L2 REF: p. 202 | p. 203
OBJ: 8.1.2 Describe the role of ATP in cellular activities. NAT: C.1.b | C.5.a | C.5.f
STA: BL.1.i KEY: analysis
6. ANS: A PTS: 1 DIF: L1 REF: p. 204 | p. 205
OBJ: 8.2.1 Explain what the experiments of van Helmont, Priestley, and Ingenhousz reveal about how plants grow. NAT: B.3 | G.3 STA: BL.6.d KEY: knowledge
7. ANS: A PTS: 1 DIF: L2 REF: p. 204
OBJ: 8.2.1 Explain what the experiments of van Helmont, Priestley, and Ingenhousz reveal about how plants grow. NAT: B.3 | G.3 STA: BL.1.f | BL.6.d
KEY: application
8. ANS: D PTS: 1 DIF: L1 REF: p. 204 | p. 206
OBJ: 8.2.2 State the overall equation for photosynthesis. NAT: B.3 | G.3
STA: BL.1.f | BL.6.d KEY: knowledge
9. ANS: D PTS: 1 DIF: L2 REF: p. 206
OBJ: 8.2.2 State the overall equation for photosynthesis. NAT: B.3 | G.3
STA: BL.1.f | BL.6.d KEY: comprehension
10. ANS: D PTS: 1 DIF: L1 REF: p. 207
OBJ: 8.2.3 Describe the role of light and chlorophyll in photosynthesis.
NAT: B.3 | G.3 | C.1.e STA: BL.1.f | BL.6.d
KEY: knowledge
11. ANS: A PTS: 1 DIF: L2 REF: p. 207
OBJ: 8.2.3 Describe the role of light and chlorophyll in photosynthesis.
NAT: B.3 | G.3 | C.1.e STA: BL.1.f KEY: comprehension
12. ANS: B PTS: 1 DIF: L2 REF: p. 208
OBJ: 8.3.1 Describe the structure and function of a chloroplast.
NAT: C.1.a | C.1.b | C.1.e STA: BL.1.f | BL.1.i
KEY: comprehension

13. ANS: A PTS: 1 DIF: L1 REF: p. 208
OBJ: 8.3.1 Describe the structure and function of a chloroplast.
NAT: C.1.a | C.1.b | C.1.e STA: BL.1.c KEY: knowledge
14. ANS: B PTS: 1 DIF: L2 REF: p. 208
OBJ: 8.3.1 Describe the structure and function of a chloroplast.
NAT: C.1.a | C.1.b | C.1.e STA: BL.1.f | BL.1.i
KEY: comprehension
15. ANS: C PTS: 1 DIF: L1 REF: p. 209
OBJ: 8.3.2 Describe what happens in the light-dependent reactions.
NAT: C.1.a | C.1.b | C.1.b STA: BL.6.d KEY: comprehension
16. ANS: D PTS: 1 DIF: L1 REF: p. 210
OBJ: 8.3.2 Describe what happens in the light-dependent reactions.
NAT: C.1.a | C.1.b | C.1.b STA: BL.6.d KEY: knowledge
17. ANS: B PTS: 1 DIF: L1 REF: p. 208 | p. 210 | p. 211
OBJ: 8.3.2 Describe what happens in the light-dependent reactions.
NAT: C.1.a | C.1.b | C.1.b STA: BL.6.d KEY: knowledge
18. ANS: A PTS: 1 DIF: L1 REF: p. 212
OBJ: 8.3.3 Explain what the Calvin cycle is. NAT: B.6 | C.1.a | C.1.b
STA: BL.6.d | BL.1.f KEY: knowledge
19. ANS: A PTS: 1 DIF: L2 REF: p. 208 | p. 212
OBJ: 8.3.3 Explain what the Calvin cycle is. NAT: B.6 | C.1.a | C.1.b
STA: BL.6.d | BL.1.f KEY: comprehension
20. ANS: C PTS: 1 DIF: L1 REF: p. 212
OBJ: 8.3.3 Explain what the Calvin cycle is. NAT: B.6 | C.1.a | C.1.b
STA: BL.6.d | BL.1.f KEY: knowledge
21. ANS: B PTS: 1 DIF: L2 REF: p. 212 | p. 213
OBJ: 8.3.3 Explain what the Calvin cycle is. NAT: B.6 | C.1.a | C.1.b
STA: BL.1.f KEY: application
22. ANS: C PTS: 1 DIF: L1 REF: p. 222
OBJ: 9.1.1 Explain what cellular respiration is. NAT: C.1.a | C.1.b | C.5.a
STA: BL.6.d | BL.1.i KEY: knowledge
23. ANS: A PTS: 1 DIF: L2 REF: p. 222
OBJ: 9.1.1 Explain what cellular respiration is. NAT: C.1.a | C.1.b | C.5.a
STA: BL.6.d KEY: comprehension
24. ANS: A PTS: 1 DIF: L1 REF: p. 222
OBJ: 9.1.1 Explain what cellular respiration is. NAT: C.1.a | C.1.b | C.5.a
STA: BL.6.d KEY: knowledge
25. ANS: C PTS: 1 DIF: L2 REF: p. 222
OBJ: 9.1.1 Explain what cellular respiration is. NAT: C.1.a | C.1.b | C.5.a
STA: BL.6.d KEY: application
26. ANS: B PTS: 1 DIF: L1 REF: p. 222
OBJ: 9.1.1 Explain what cellular respiration is. NAT: C.1.a | C.1.b | C.5.a
STA: BL.6.d KEY: knowledge
27. ANS: A PTS: 1 DIF: L1 REF: p. 223
OBJ: 9.1.2 Describe what happens during the process of glycolysis.
NAT: C.1.a | C.1.b | C.5.a STA: BL.6.d KEY: knowledge

28. ANS: A PTS: 1 DIF: L3 REF: p. 223
 OBJ: 9.1.2 Describe what happens during the process of glycolysis.
 NAT: C.1.a | C.1.b | C.5.a STA: BL.6.d KEY: synthesis
29. ANS: C PTS: 1 DIF: L1 REF: p. 225
 OBJ: 9.1.3 Name the two main types of fermentation.
 STA: BL.9.h KEY: knowledge NAT: C.1.a | C.1.b | C.5.c
30. ANS: C PTS: 1 DIF: L1 REF: p. 224
 OBJ: 9.1.3 Name the two main types of fermentation.
 STA: BL.9.h KEY: knowledge NAT: C.1.a | C.1.b | C.5.c
31. ANS: C PTS: 1 DIF: L1 REF: p. 225
 OBJ: 9.1.3 Name the two main types of fermentation.
 STA: BL.9.h KEY: knowledge NAT: C.1.a | C.1.b | C.5.c
32. ANS: C PTS: 1 DIF: L2 REF: p. 224
 OBJ: 9.1.3 Name the two main types of fermentation.
 KEY: comprehension NAT: C.1.a | C.1.b | C.5.c
33. ANS: D PTS: 1 DIF: L3 REF: p. 225
 OBJ: 9.1.3 Name the two main types of fermentation.
 STA: BL.9.h KEY: synthesis NAT: C.1.a | C.1.b | C.5.c
34. ANS: C PTS: 1 DIF: L1 REF: p. 226
 OBJ: 9.1.1 Explain what cellular respiration is.
 STA: BL.6.d KEY: knowledge NAT: C.1.a | C.1.b | C.5.a
35. ANS: B PTS: 1 DIF: L2 REF: p. 231
 OBJ: 9.2.3 Identify three pathways the body uses to release energy during exercise.
 NAT: C.1.a | C.5.a | C.5.c | C.5.d STA: BL.6.d KEY: application
36. ANS: C PTS: 1 DIF: L1 REF: p. 231
 OBJ: 9.2.3 Identify three pathways the body uses to release energy during exercise.
 NAT: C.1.a | C.5.a | C.5.c | C.5.d STA: BL.6.d KEY: knowledge
37. ANS: B PTS: 1 DIF: L2 REF: p. 230
 OBJ: 9.2.3 Identify three pathways the body uses to release energy during exercise.
 NAT: C.1.a | C.5.a | C.5.c | C.5.d STA: BL.6.d KEY: application
38. ANS: B PTS: 1 DIF: L2 REF: p. 232
 OBJ: 9.2.4 Compare photosynthesis and cellular respiration.
 STA: BL.6.d | BL.1.g KEY: application NAT: C.1.a | C.5.a | C.5.d
39. ANS: B PTS: 1 DIF: L1 REF: p. 232
 OBJ: 9.2.4 Compare photosynthesis and cellular respiration.
 STA: BL.6.d KEY: knowledge NAT: C.1.a | C.5.a | C.5.d
40. ANS: C PTS: 1 DIF: L2 REF: p. 232
 OBJ: 9.2.4 Compare photosynthesis and cellular respiration.
 STA: BL.6.d | BL.1.f | BL.1.g KEY: analysis NAT: C.1.a | C.5.a | C.5.d