

Practice Exam Answer Section

MULTIPLE CHOICE

- ANS: B PTS: 1 DIF: L2 REF: p. 9
OBJ: 1.1.2 Describe the steps used in scientific methodology.
STA: OH.SW.I9.2 | OH.SW.I10.3 | OH.SW.I10.4 TOP: Foundation Edition
BLM: synthesis
- ANS: B PTS: 1 DIF: L2 REF: p. 13
OBJ: 1.2.3 Explain what a scientific theory is.
STA: OH.SW.I9.5 | OH.SW.B1112.A | OH.SW.I11.7 TOP: Foundation Edition
BLM: analysis
- ANS: A PTS: 1 DIF: L1 REF: p. 14
OBJ: 1.2.4 Explain the relationship between science and society.
STA: OH.SW.I9.4 | OH.ST.I11.1 | OH.SW.I11.5 TOP: Foundation Edition
BLM: knowledge
- ANS: B PTS: 1 DIF: L1 REF: p. 17 | p. 18 | p. 19
OBJ: 1.3.1 List the characteristics of living things.
STA: OH.LS.B910.A | OH.LS.I10.11 | OH.LS.I10.5 TOP: Foundation Edition
BLM: knowledge
- ANS: B PTS: 1 DIF: L3 REF: p. 18 | p. 20
OBJ: 1.3.1 List the characteristics of living things.
STA: OH.LS.B910.A | OH.LS.I10.11 | OH.LS.I10.5 BLM: synthesis
- ANS: A PTS: 1 DIF: L1 REF: p. 19
OBJ: 1.3.1 List the characteristics of living things.
STA: OH.LS.B910.A | OH.LS.I10.11 | OH.LS.I10.5 TOP: Foundation Edition
BLM: knowledge
- ANS: C PTS: 1 DIF: L2 REF: p. 22
OBJ: 1.3.3 Explain how life can be studied at different levels.
STA: OH.SW.I9.1 | OH.SW.I10.1 BLM: comprehension
- ANS: D PTS: 1 DIF: L1 REF: p. 34
OBJ: 2.1.1 Identify the three subatomic particles found in atoms.
TOP: Foundation Edition BLM: knowledge
- ANS: C PTS: 1 DIF: L1 REF: p. 35
OBJ: 2.1.2 Explain how all of the isotopes of an element are similar and how they are different.
TOP: Foundation Edition BLM: analysis
- ANS: B PTS: 1 DIF: L2 REF: p. 35
OBJ: 2.1.2 Explain how all of the isotopes of an element are similar and how they are different.
TOP: Foundation Edition BLM: evaluation
- ANS: A PTS: 1 DIF: L1 REF: p. 36
OBJ: 2.1.3 Explain how compounds are different from their component elements.
TOP: Foundation Edition BLM: knowledge
- ANS: B PTS: 1 DIF: L2 REF: p. 37
OBJ: 2.1.4 Describe the two main types of chemical bonds. STA: OH.LS.I12.4
TOP: Foundation Edition BLM: application
- ANS: C PTS: 1 DIF: L1 REF: p. 42
OBJ: 2.2.2 Differentiate between solutions and suspensions. TOP: Foundation Edition
BLM: knowledge

14. ANS: D PTS: 1 DIF: L2 REF: p. 42
OBJ: 2.2.2 Differentiate between solutions and suspensions. TOP: Foundation Edition
BLM: comprehension
15. ANS: A PTS: 1 DIF: L2 REF: p. 43
OBJ: 2.2.3 Explain what acidic solutions and basic solutions are.
TOP: Foundation Edition BLM: analysis
16. ANS: C PTS: 1 DIF: L1 REF: p. 44
OBJ: 2.2.3 Explain what acidic solutions and basic solutions are.
TOP: Foundation Edition BLM: knowledge
17. ANS: D PTS: 1 DIF: L3 REF: p. 46 | p. 48
OBJ: 2.3.2 Describe the structures and functions of each of the four groups of macromolecules.
STA: OH.LS.I10.11 | OH.LS.I12.4 BLM: synthesis
18. ANS: D PTS: 1 DIF: L2 REF: p. 46 | p. 48
OBJ: 2.3.2 Describe the structures and functions of each of the four groups of macromolecules.
STA: OH.LS.I10.11 | OH.LS.I12.4 TOP: Foundation Edition
BLM: analysis
19. ANS: C PTS: 1 DIF: L3 REF: p. 50
OBJ: 2.4.1 Explain how chemical reactions affect chemical bonds.
STA: OH.LS.I12.4 BLM: synthesis
20. ANS: B PTS: 1 DIF: L2 REF: p. 50
OBJ: 2.4.1 Explain how chemical reactions affect chemical bonds.
STA: OH.LS.I12.4 TOP: Foundation Edition
BLM: analysis
21. ANS: D PTS: 1 DIF: L3 REF: p. 51
OBJ: 2.4.2 Describe how energy changes affect how easily a chemical reaction will occur.
STA: OH.LS.I12.4 BLM: comprehension
22. ANS: D PTS: 1 DIF: L2 REF: p. 52
OBJ: 2.4.3 Explain why enzymes are important to living things.
TOP: Foundation Edition BLM: analysis
23. ANS: C PTS: 1 DIF: L2 REF: p. 193
OBJ: 7.1.3 Distinguish between prokaryotes and eukaryotes. STA: OH.LS.I10.2
TOP: Foundation Edition BLM: application
24. ANS: C PTS: 1 DIF: L2 REF: p. 194
OBJ: 7.1.3 Distinguish between prokaryotes and eukaryotes. STA: OH.LS.I10.2
TOP: Foundation Edition BLM: comprehension
25. ANS: A PTS: 1 DIF: L3 REF: p. 194
OBJ: 7.1.3 Distinguish between prokaryotes and eukaryotes. STA: OH.LS.I10.2
BLM: application
26. ANS: B PTS: 1 DIF: L1 REF: p. 198
OBJ: 7.2.2 Describe the role of vacuoles, lysosomes, and the cytoskeleton.
STA: OH.LS.I10.2 TOP: Foundation Edition
BLM: comprehension
27. ANS: C PTS: 1 DIF: L3 REF: p. 198
OBJ: 7.2.2 Describe the role of vacuoles, lysosomes, and the cytoskeleton.
STA: OH.LS.I10.2 BLM: application
28. ANS: A PTS: 1 DIF: L3 REF: p. 202
OBJ: 7.2.4 Describe the function of the chloroplasts and mitochondria in the cell.
STA: OH.LS.I10.2 BLM: synthesis
29. ANS: A PTS: 1 DIF: L1 REF: p. 203

- OBJ: 7.2.5 Describe the function of the cell membrane. STA: OH.LS.I10.2
TOP: Foundation Edition BLM: knowledge
30. ANS: D PTS: 1 DIF: L3 REF: p. 204
OBJ: 7.2.5 Describe the function of the cell membrane. STA: OH.LS.I10.2
BLM: synthesis
31. ANS: B PTS: 1 DIF: L2 REF: p. 209
OBJ: 7.3.1 Describe passive transport. STA: OH.LS.I10.3.c
BLM: comprehension
32. ANS: D PTS: 1 DIF: L2 REF: p. 212
OBJ: 7.3.2 Describe active transport. STA: OH.LS.I10.3.c
TOP: Foundation Edition BLM: application
33. ANS: D PTS: 1 DIF: L2 REF: p. 227
OBJ: 8.1.1 Describe the role of ATP in cellular activities. STA: OH.LS.I10.3.e
TOP: Foundation Edition BLM: comprehension
34. ANS: A PTS: 1 DIF: L1 REF: p. 228
OBJ: 8.1.2 Explain where plants get the energy they need to produce food.
STA: OH.LS.I10.10 TOP: Foundation Edition
BLM: knowledge
35. ANS: B PTS: 1 DIF: L1 REF: p. 228
OBJ: 8.1.2 Explain where plants get the energy they need to produce food.
STA: OH.LS.I10.10 TOP: Foundation Edition
BLM: knowledge
36. ANS: A PTS: 1 DIF: L1 REF: p. 230
OBJ: 8.2.1 Explain the role of light and pigments in photosynthesis.
STA: OH.LS.I10.2 | OH.LS.I10.10 TOP: Foundation Edition
BLM: knowledge
37. ANS: C PTS: 1 DIF: L2 REF: p. 231
OBJ: 8.2.1 Explain the role of light and pigments in photosynthesis.
STA: OH.LS.I10.2 | OH.LS.I10.10 TOP: Foundation Edition
BLM: comprehension
38. ANS: A PTS: 1 DIF: L3 REF: p. 232
OBJ: 8.2.3 State the overall equation for photosynthesis. STA: OH.SI.I10.3 |
OH.LS.I10.10
BLM: application
39. ANS: D PTS: 1 DIF: L3 REF: p. 232
OBJ: 8.2.3 State the overall equation for photosynthesis. STA: OH.SI.I10.3 |
OH.LS.I10.10
BLM: synthesis
40. ANS: A PTS: 1 DIF: L2 REF: p. 251
OBJ: 9.1.2 Define cellular respiration. STA: OH.LS.I10.10 | OH.SI.I10.3
TOP: Foundation Edition BLM: comprehension
41. ANS: C PTS: 1 DIF: L1 REF: p. 252
OBJ: 9.1.2 Define cellular respiration. STA: OH.LS.I10.10 | OH.SI.I10.3
TOP: Foundation Edition BLM: knowledge
42. ANS: C PTS: 1 DIF: L3 REF: p. 252
OBJ: 9.1.3 Compare photosynthesis and cellular respiration.
STA: OH.LS.I10.10 | OH.SI.I10.3 BLM: analysis
43. ANS: D PTS: 1 DIF: L2 REF: p. 255
OBJ: 9.2.1 Describe what happens during glycolysis. STA: OH.LS.I10.10 |

OH.LS.I10.11

TOP: Foundation Edition BLM: comprehension

44. ANS: C PTS: 1 DIF: L1 REF: p. 263

OBJ: 9.3.1 Explain how organisms get energy in the absence of oxygen.

STA: OH.LS.I10.10 | OH.LS.I10.11 TOP: Foundation Edition

BLM: knowledge

45. ANS: C PTS: 1 DIF: L1 REF: p. 282

OBJ: 10.2.2 Name the main events of the cell cycle. STA: OH.LS.B910.B |

OH.LS.I10.4

TOP: Foundation Edition BLM: knowledge

46. ANS: C PTS: 1 DIF: L1 REF: p. 281

OBJ: 10.2.2 Name the main events of the cell cycle. STA: OH.LS.B910.B |

OH.LS.I10.4

TOP: Foundation Edition BLM: knowledge

47. ANS: A PTS: 1 DIF: L1 REF: p. 282

OBJ: 10.2.3 Describe what happens during the four phases of mitosis.

STA: OH.LS.B910.B TOP: Foundation Edition

BLM: knowledge

48. ANS: A PTS: 1 DIF: L1 REF: p. 282

OBJ: 10.2.3 Describe what happens during the four phases of mitosis.

STA: OH.LS.B910.B TOP: Foundation Edition

BLM: knowledge

49. ANS: C PTS: 1 DIF: L1 REF: p. 289

OBJ: 10.3.2 Explain how cancer cells are different from other cells.

STA: OH.SI.I12.5 TOP: Foundation Edition BLM: comprehension

50. ANS: A PTS: 1 DIF: L1 REF: p. 289

OBJ: 10.3.2 Explain how cancer cells are different from other cells.

STA: OH.SI.I12.5 TOP: Foundation Edition BLM: knowledge