

## PRACTICE TEST 1: DIAGNOSTIC ANSWER KEY

Let's take a look at how you did on Practice Test 1. Follow the three-step process in the diagnostic answer key below and go read the explanations for any questions you got wrong or you struggled with but got correct. Once you finish working through the answer key and the explanations, go to the next chapter to make your study plan.

### STEP 1 >>

**Check your answers and mark any correct answers with a ✓ in the appropriate column.**

Multiple Choice							
Q #	Ans.	✓	Chapter #, Section Title	Q #	Ans.	✓	Chapter #, Section Title
1	B		5, Osmosis	27	D		11, Consumers (heterotrophs)
2	B		5, Osmosis	28	B		11, Consumers (heterotrophs)
3	D		5, Osmosis	29	D		11, Consumers (heterotrophs)
4	C		5, Osmosis	30	A		11, Population Ecology
5	A		5, Osmosis	31	D		11, Exponential Growth
6	C		6, Enzyme-Substrate Complex	32	B		9, Gene Rearrangements
7	A		6, Relative Concentration of Substrates	33	A		9, Gene Regulation
8	C		6, Relative Concentration of Substrates	34	B		9, Transcription
9	C		6, Relative Concentration of Substrates	35	D		9, Gene Regulation
10	D		10, Species	36	D		11, The 10% Rule
11	B		8, Meiotic Errors	37	A		6, Enzyme-Substrate Complex
12	A		9, Gene Rearrangements	38	D		6, Enzyme-Substrate Complex
13	B		9, Gene Regulation	39	D		6, Higher Protein Structure
14	D		9, Gene Regulation	40	C		6, Enzyme-Substrate Complex
15	B		9, Gene Regulation	41	B		4, Lipids
16	A		9, Gene Regulation	42	C		4, Carbohydrates
17	D		4, Water: The Versatile Molecule	43	B		4, Organic Molecules
18	C		10, The Peppered Moths	44	A		4, Nucleic Acids
19	A		10, Species	45	A		8, Monohybrid Cross
20	A		10, The Peppered Moths	46	C		8, Monohybrid Cross
21	B		10, Species	47	B		8, Linked Genes
22	D		5, Osmosis	48	B		8, Monohybrid Cross
23	B		7, Cell Communication	49	B		8, Monohybrid Cross
24	D		7, Cell Communication	50	D		7, Cell Communication
25	B		7, Cell Communication	51	B		7, Cell Communication
26	B		7, Organelles	52	C		7, Cell Communication

**Multiple Choice—Continued**

Q #	Ans.	✓	Chapter #, Section Title	Q #	Ans.	✓	Chapter #, Section Title
53	B		7, Cell Communication	57	B		10, Causes of Evolution
54	C		10, Causes of Evolution	58	B		10, Causes of Evolution
55	C		10, Causes of Evolution	59	D		10, Causes of Evolution
56	B		10, Causes of Evolution	60	B		10, Causes of Evolution

**Free Response**

Q #	Ans.	✓	Chapter #, Section Title
1a	See Explanation		7, Ecology
1b	See Explanation		10, Natural Selection
1c	See Explanation		10, Natural Selection
1d	See Explanation		10, Natural Selection
2a	See Explanation		6, Cellular Energetics
2b	See Explanation		6, Cellular Energetics
2c	See Explanation		6, Cellular Energetics
2d	See Explanation		6, Cellular Energetics
3a	See Explanation		9, Gene Expression & Regulation
3b	See Explanation		9, Gene Expression & Regulation
3c	See Explanation		9, Gene Expression & Regulation
3d	See Explanation		9, Gene Expression & Regulation
4a	See Explanation		6, Cellular Energetics
4b	See Explanation		4, Chemistry of Life
4c	See Explanation		4, Chemistry of Life
4d	See Explanation		4, Chemistry of Life
5a	See Explanation		10, Natural Selection
5b	See Explanation		10, Natural Selection
5c	See Explanation		10, Natural Selection
5d	See Explanation		10, Natural Selection
6a	See Explanation		10, Natural Selection
6b	See Explanation		10, Natural Selection
6c	See Explanation		10, Natural Selection
6d	See Explanation		10, Natural Selection