

## 2013 NATIONAL BIOLOGY COMPETITION

### ANSWER KEY

1	D
2	C
3	B
4	E
5	A
6	B
7	A
8	D
9	C
10	A,D
11	D
12	A
13	E
14	C
15	B
16	C
17	C
18	D
19	E
20	A
21	B
22	A
23	A
24	C
25	E

26	D
27	B
28	C
29	B
30	A
31	E
32	D
33	D
34	C
35	B
36	A
37	E
38	D
39	C
40	B
41	E
42	B
43	D
44	C
45	A
46	B
47	A
48	D
49	B
50	C

**Note:**

Question 10: Credit was given for answering either A (condensation reaction) or D (dehydration reaction). The most correct response is A. However, some authors use "condensation reaction" and "dehydration reaction" interchangeably. A condensation reaction involves two functional groups joining and water being lost in the process; this can also be called dehydration synthesis. Whereas, a dehydration reaction is the loss of a water from a molecule that is undergoing a change (for example, alcohol to an alkene and water). The subtlety between "synthesis" and "reaction" in this question was unintentional, hence credit is given for answering either A or D.