# IBO CHALLENGE II

32nd INTERNATIONAL BIOLOGY OLYMPIAD

Lisbon, PORTUGAL - July 21st, 2021




# THEORETICAL-PRACTICAL TEST

## ANSWER KEY

- This test consists of eight parts.
- All questions have the same value – 1 point each correct answer
- Maximum score: 171 points
- Only answers marked in this ANSWER SHEET will be validated

# Part 1

## The departure – The Gulf of Cadis I

**Section I**

**1.**

| | |
|---|---|
| 1 | G |
| 2 | B |
| 3 | H |
| 4 | D |
| 5 | I |

**2** .

| | |
|---|---|
| a) | |
| b) | |
| c) | |
| d) | X |

**3.**

| | |
|---|---|
| a) | T |
| b) | T |
| c) | F |
| d) | T |

**4. a)**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |
| e) | |
| f) | |
| g) | |

**4. b)**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

**Section II**

**5.**

| | |
|---|---|
| A | 8 |
| B | 17 |
| C | 11 |
| D | 10 |
| E | 4 |
| F | 7 |
| G | 15 |
| H | 1 |
| I | 6 |
| J | 13 |
| K | 4 |
| L | 5 |
| M | 18 |
| N | 1 |
| O | 7 |
| P | 2 |
| Q | 9 |
| R | 3 |
| S | 17 |
| T | 6 |

**6. a)**

| | |
|---|---|
| a) | T |
| b) | F |
| c) | T |
| d) | T |

**6. b)**

| | |
|---|---|
| a) | T |
| b) | T |
| c) | T |
| d) | F |

**Section III**

**7. a)**

| | |
|---|---|
| a) | F |
| b) | F |
| c) | T |
| d) | F |

**7. b)**

| | |
|---|---|
| a) | T |
| b) | F |
| c) | T |
| d) | F |

**7. c)**

| | |
|---|---|
| a) | F |
| b) | T |
| c) | F |
| d) | T |

**7. d)**

| | |
|---|---|
| a) | F |
| b) | T |
| c) | T |
| d) | T |

# Part 2

# The departure – The Gulf of Cadis II

**Section I**

**1.**

| | |
|---|---|
| a) | T |
| b) | F |
| c) | F |
| d) | F |

**2.**

| | |
|---|---|
| a) | T |
| b) | F |
| c) | F |
| d) | T |

**3.**

| | |
|---|---|
| a) | T |
| b) | F |
| c) | T |
| d) | F |

**4.**

| | |
|---|---|
| a) | T |
| b) | T |
| c) | F |
| d) | T |

**5.**

| | |
|---|---|
| a) | T |
| b) | F |
| c) | F |
| d) | F |

## Section II

**6.**

| | |
|---|---|
| a) | A |
| b) | A |
| c) | B |
| d) | A |
| e) | A |

## Section III

**7.**

| | |
|---|---|
| a) | T |
| b) | T |
| c) | F |
| d) | F |
| e) | T |

# Part 3

## The departure – The Gulf of Cadis III

**1.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**2.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

**3.**

| | |
|---|---|
| a) | |
| b) | |
| c) | |
| d) | X |

**4.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**5.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**6.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**7.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**8.**

| | |
|---|---|
| a) | X |
| b) | |
| c) | |
| d) | |

**9.**

| | |
|---|---|
| a) | |
| b) | |
| c) | |
| d) | X |

**10.**

| | |
|---|---|
| a) | X |
| b) | |
| c) | |
| d) | |

# Part 4

## The first stopover – The Canary Islands

**1.**

| | |
|---|---|
| a) | X |
| b) | |
| c) | |
| d) | |

**2.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

**3.**

| | |
|---|---|
| 1) | B |
| 2) | A |
| 3) | C |

**4.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**5.**

| | |
|---|---|
| a) | B – A – A |
| b) | A - B |
| c) | D |
| d) | A |

**6.**

| | |
|---|---|
| a) | T |
| b) | F |
| c) | F |
| d) | T |

# Part 5

# The second stopover – Rio de Janeiro, Brazil

**Section I**

**1.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

**2.**

| | |
|---|---|
| a) | T |
| b) | F |
| c) | T |
| d) | F |
| e) | F |
| f) | T |

**Section II**

**3.**

| | |
|---|---|
| a) | F |
| b) | F |
| c) | T |
| d) | T |
| e) | F |
| f) | T |

# Part 6

## The third stopover – The Strait of Magellan

**1.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**2.**

| | |
|---|---|
| a) | T |
| b) | F |
| c) | F |
| d) | T |
| e) | T |
| f) | F |
| g) | T |
| h) | F |

**3.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

**4.**

| | |
|---|---|
| a) | X |
| b) | |
| c) | |
| d) | |

**5.**

| | |
|---|---|
| a) | |
| b) | |
| c) | |
| d) | X |

**6.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**7.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

# Part 7

# The fourth stopover – Ladrones Islands (Marianas)

**Section I**

**1.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**2.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

**3.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**4.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

**5.**

| | |
|---|---|
| a) | |
| b) | |
| c) | |
| d) | X |

**6.**

| | |
|---|---|
| a) | |
| b) | |
| c) | |
| d) | X |

**7.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

**8.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**9.**

| | |
|---|---|
| a) | |
| b) | |
| c) | X |
| d) | |

**10.**

| | |
|---|---|
| a) | |
| b) | |
| c) | |
| d) | X |

**Section II**

| | |
|---|---|
| *Hemicordulia mindana* | G, K |
| *Pheidole vatu* | A, L |
| *Salomona guamensis* | D, I, K |
| *Sarcophaga stricklandi* | B, E, G |

**Section III**

| |
|---|
| A |
| D |
| A |
| C |
| E |

# Part 8

# The end of the journey – The Island of Mactan, Philippines

**Section I**

**1.**

| | |
|---|---|
| a) | B |
| b) | A |
| c) | A |
| d) | C |

**2.**

| | |
|---|---|
| A | |
| B | X |
| C | |

**3.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |
| d) | |

**Section II**

**4.**

| | |
|---|---|
| a) | F |
| b) | T |
| c) | F |
| d) | T |

**Section III**

**5.**

| | |
|---|---|
| a) | |
| b) | X |
| c) | |

**6.**

| | |
|---|---|
| a) | |
| b) | |
| c) | |
| d) | |
| e) | X |