

Animal biology practical exam answer key

Experiment A:

Table A.1: indicate the life mode of each mite with "✓". (3 points for each correct column)

Life mode	Specimen number			
	A	B	C	D
Soil-dwelling predator	✓			
Free-living predator			✓	
Parasite		✓		
Saprophagous mite				✓
Phytophagous mite	-	-	-	-

Table A.2: (6 points for each correct row)

Specimen	Step	1	2	3	4	5	6
Family Holothyridae		1a	2b	3b	4a	7b	-
Slide No. A		1a	2b	3b	4b	8a	-
Slide No. B		1a	2b	3b	4b	8b	-
Slide No. C		1b	5a	9b	-	-	-
Slide No. D		1b	5b	10a	-	-	-

- Marking starts from the first cell of each row at left side and continues until the cell, which has the incorrect answer.
- Even if there was a correct answer on the right side of an incorrect cell, no point would not be considered for that correct cell.
- In Slides A and B based on number of cells that should be answered, each correct cell would be considered 1.2 point.
- In Slides C and D based on number of cells that should be answered, each correct cell would be considered 2 points.

Experiment B:

Task B.1.1: (1 point for each question)

Question number	True	False
Q1		✓
Q2		✓

Task B.1.2: (1 point for each cell) (Do not use each number more than once)

Characters	Anterior sucker	Posterior sucker	Anal pore	Male genital pore	Female genital pore	Nephridiopore
Matching No.	3	4	6	2	5	1

Task B.2.2: (1 point for each question)

Question number	True	False
Q1	✓	
Q2	✓	
Q3	✓	
Q4		✓
Q5		✓
Q6	✓	
Q7		✓
Q8		✓

Experiment C:

Task 3.1. Write your answers in seconds in the Answer sheet with a precision of two digits after the decimal point. (0.5 points each)

	QT interval
At the beginning	0.36-0.40
1 st minute	0.36-0.40
2 nd minute	0.40-0.44
3 rd minute	0.28-0.32

- For QT intervals with less than two decimals, no point would not be considered.
- For QT intervals with more than two decimals, 0.25 point would be considered.

Task 3.2.A.1-4

Source	Sum of Squares (1 point each)	Degrees of Freedom (0.5 point each)	Variance Estimate (MS) (0.25 point each)	F Ratio (1 point)
Between	5532	3	1844	26.5
Within	556	8	69.5	
Total	6088	11		

- For F ratios with more than one decimals, 0.5 point would be considered.

Task 3.2.A.5. (1 point)

P value	0.001
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- If the reported P values matches the reported F ratio above, 1 point would be considered.

F ratio	P value
0.45	0.5
2.92	0.1
5.42	0.025
7.59	0.01
9.60	0.005
15.83	0.001

3.2.B. (1 point)

P value	0.5
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Task 3.2.C.1. (2 point)

Yes	✓
No	

Task 3.2.C.2. (1 point each)

Statement	True	False
1	✓	
2		✓
3	✓	

Task 3.3.1 (0.5 point for each cell)

Sample	A	B	C	D
Volume of NaOH	1320-1390	310-350	520-590	420-470
pH of treated sample	0.856-0.879	1.455-1.509	1.229-1.284	1.327-1.377

- If the reported pH matches the reported volume of NaOH above, 0.5 point would be considered.
- For pH values with less than three decimals, no point would not be considered.
- For pH values with more than three decimals, 0.25 point would be considered.

Task 3.3.2 (0.5 point for each cell)

Sample	A	B	C	D
pH of original sample	6.497-6.501	7.399-7.402	7.297-7.301	7.498-7.501

- If the reported pH matches the reported volume of NaOH above, 0.5 point would be considered.
- For pH values with less than three decimals, no point would not be considered.
- For pH values with more than three decimals, 0.25 point would be considered.

Task 3.3.3 (1 point each)

Source	Inferior vena cava	Pulmonary artery	Pulmonary vein	Urine
Sample name (A-D)	C	B	D	A

Task 3.4 (1 point each)

Statement	True	False
1		✓
2	✓	
3		✓
4		✓
5	✓	