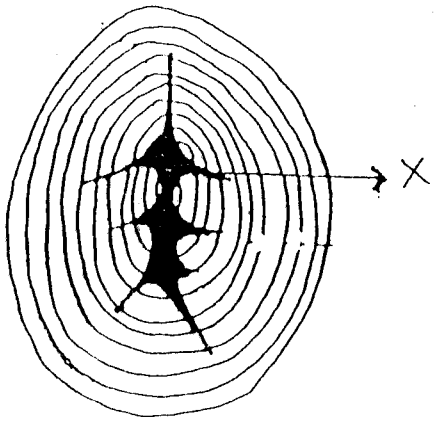
4.2. Answer Keys to the Practical Test

Laboratory I: Plant Anatomy, Morphology and Taxonomy
Task 1.

1.
1.1. Answer code: 01
1.2. Answer code: 02

2.
2.1.1. Answer code: 03
2.1.2. Answer code: 05
2.2. Answer code: W: 03 X: 05 Y: 02 Z: 04

3.



Answer Key - Practical Test

Task 2.

2.1.

5
3
9
1
10
6
2
8
7
4

2.2.

A) D
B) E

2.3.

Sample 12: H
Sample 13: B
Sample 14: A

Laboratory II: Animal Anatomy, Morphology and Taxonomy
Task 1.

1.

1.1.

Number of compound eyes: 1
Number of ocelli eyes: 1

1.2.

3

1.3.

4
3
4
5

1.4.

2
6

1.5.

C

2.

D) L_M: 1.5 - 3.0 mm

3.

a) lnW: 2.762 - 4.625

b) W: 15.84 - 102.10 µg

or

3.

a) lnW: 2.770 - 4.635

b) W: 15.94 - 103.03 µg

Task 2.

2.1.

1st Alternative

2

3

1 (or 4)

4 (or 1)

4

5

3 (or 5)

5 (or 3)

2 (or 6)

6 (or 2)

2.1.

2nd Alternative

2

3

1 (or 4)

4 (or 1)

4

5

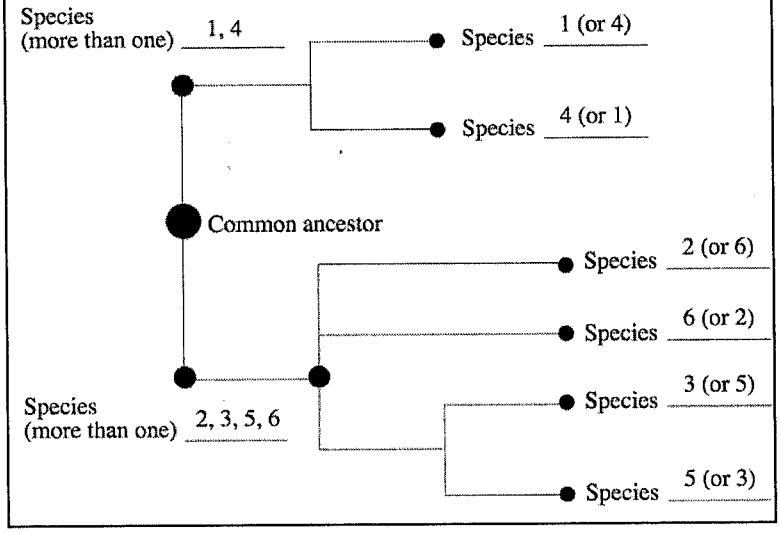
2 (or 6)

6 (or 2)

3 (or 5)

5 (or 3)

2.2.



2.3.

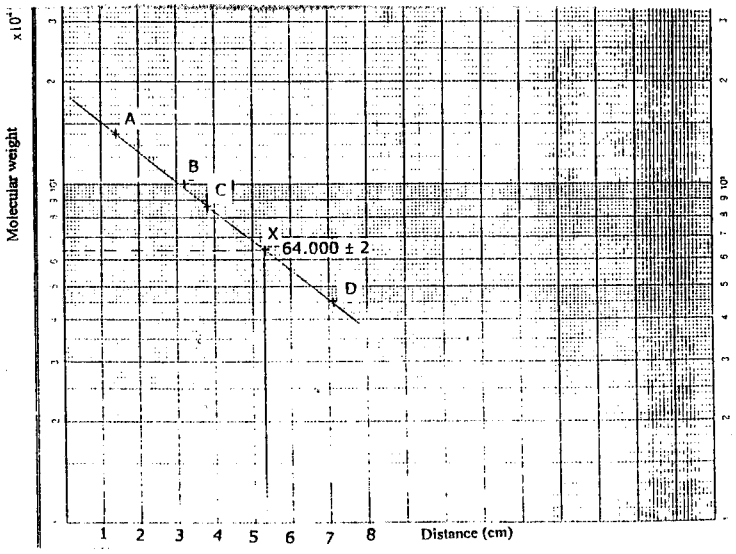
	Specimen number						
Characters	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Lives in steppes		X	X		X	X	
Lives underground							X
Lives in herbs and shrubs	X			X			
Tympanal (auditory) organs are on the first leg	X			X			X
Tympanal (auditory) organs are on the body		X	X		X	X	
Raptorial type feet (feet modified for grasping)							
Jumping type feet	X	X	X	X	X	X	
Digging type feet							X

Practical Test III: Biochemistry
Group A
I-

1.

Protein	Subunit molecular weight
Protein A	140.000
Protein B	100.000
Protein C	86.000
Protein D	45.000
Protein X	?

2.



3.

64.000 ± 2

Answer Key - Practical Test

II.

B

Group B
1: 3
2: 4, 5
3: 1, 2
4: 8
5: 7
6: 4, 5
7: 2, 1
8: 5, 4

Practical Test IV: Ecology

3.

Table 1

	Horizon I			Horizon II			Horizon III		
Category	Number	% Abundancy	Diversity	Number	% Abundancy	Diversity	Number	% Abundancy	Diversity
(A) Myriapoda (Centipedes+ Millipedes)	-	-	xxxxx	-	-	xxxxx	2	40.0	xxxxx
(B) Isopoda (Wood Lice)	1	8.33	xxxxx	1	20.0	xxxxx	-	-	xxxxx
(C) Orthoptera (Grasshoppers Crickets)	1	8.33	xxxxx	-	-	xxxxx	-	-	xxxxx
(D) Coleoptera (Beetles)	2	16.66	xxxxx	1	20.0	xxxxx	-	-	xxxxx
(E) Hemiptera (True Bugs + Sapsuckers)	2	16.66	xxxxx	-	-	xxxxx	-	-	xxxxx
(F) Hymenoptera (Ants + Bees + Wasps)	5	41.66	xxxxx	3	60.0	xxxxx	3	60.0	xxxxx
(G) Homoptera (Cicadas + Aphids)	1	8.33	xxxxx	-	-	xxxxx	-	-	xxxxx
TOTAL	12	**100**	2.0121	5	**100**	1.2426	5	**100**	0.6213

4. See Table 1

5.

Table 2

	Horizon I	Horizon II	Horizon III
Horizon I	**1.00**	0.36	0.18
Horizon II		**1.00**	0.50
Horizon III			**1.00**

6.

6.1.
Horizon I: F
Horizon II: F
Horizon III: F

6.2.
Horizon I

6.3.
Horizon III

6.4.
Horizon I and Horizon II

6.5.
Horizon I and Horizon III