

PRACTICAL TEST 2

Answer Key

PHYSIOLOGY AND ANATOMY

Total Points: 49

Duration: 90 minutes

TASK I. (25 points)

Q1. (1 point)

A	B	C	D	E
	√			

Q2. (1 point = 0.5 x 2)

p	8
q	20

Q3. (1 point)

40	Hz
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Q4. (2 points)

A	B	C	D	E
	√			

Q5. (1 point)

A	B	C	D	E
			√	

Q6. (1 point)

A	B	C	D	E
				√

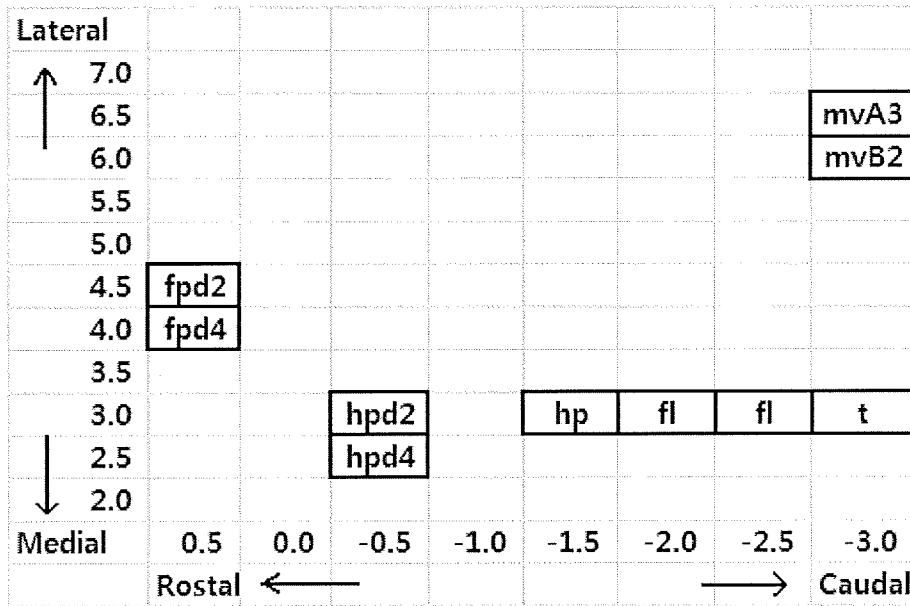
Q7. (1 point)

A	B	C	D	E
			√	

Q8. (2 points)

A	B	C	D	E
			√	

Q9. (5 points = 0.5 x 10)



1. For answers 'mvA3' or 'mvB2', 'A3' or 'B2' is evaluated as a correct answer, because the picture of the rat shows A3 or B2 only.

Q10. (1 point)

A	B	C	D	E
√				

Q11. (1 point)

A	B	C	D	E
				√

Q12. (1 point = 0.5 x 2)

X	0
Y	2.5

Q13. (4 points = 0.5 x 8)

Normal					hpd4 amputated				
lateral					lateral				
2.8					2.8				
2.6					2.6				
2.4	hpx4	hpx4	hpx4	hpx4	2.4	hpx5	hpx5	hpx3	hpx3
2.2					2.2				
(mm)	-0.6	-0.8	-1.0	-1.2	(mm)	-0.6	-0.8	-1.0	-1.2
				→ caudal					→ caudal

1. 'Numbers' without 'hpd' are also evaluated as correct answers, because the picture of the rat contains digit numbers only.

Q14. (1 point)

A	B	C	D	E
			√	

Q15. (2 points)

A	B	C	D	E
			√	

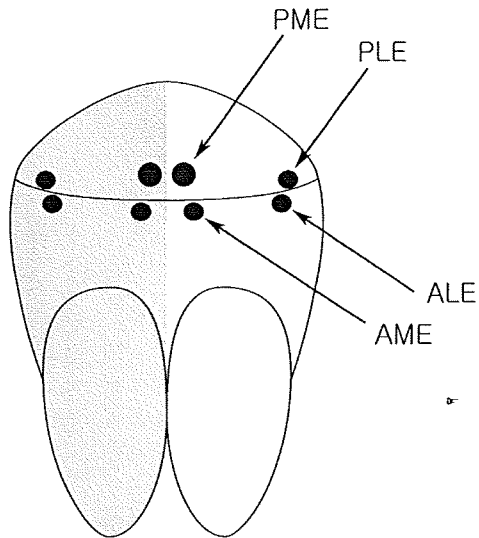
TASK II. (24 points)

Part I. (14 points)

Q16.1. (2 points = 1 x 2)

Type of eye	Total number of eye
Compound eye	0
Ocellus	8

Q16.2. (2 points)



Frontal view of the head.

1. 1 point will be given if you draw 4 pairs of eyes at proper position.
1 point to the 4 correct codes (1 point = 0.25 × 4).
2. 1 point will be given if you draw 4 pairs of eyes at proper position without correct codes or with incorrect codes.
3. 0 point will be given if you draw incorrect number of eyes.

Q17.1. (1 point)

A	B	C	D	E
			√	

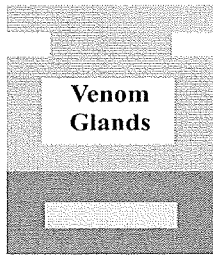
Q17.2. (1 point)

A	B	C	D	E
		√		

Q18. (1 point)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
√			

Q19.1. (2 points)



(Place the organ in the provided vial, labeled **Venom gland** in English)

1. 2 points will be given if you dissect out a pair of venom glands with or without chelicerae.
2. 1 point will be given if you dissect out the chelicerae with one venom gland.
3. 0 point will be given if you dissect incorrect organ.

Q19.2. (1 point)

A	B	C	D	E
		√		

Q20. (2 points = 0.5×4)

	1 st leg	2 nd leg
Number of segments	7	7
Number of claws	3	3

Q21.1. (1 point)

Sex of the spider provided	
Male	Female
	√

Q21.2. (1 point = 0.5×2)

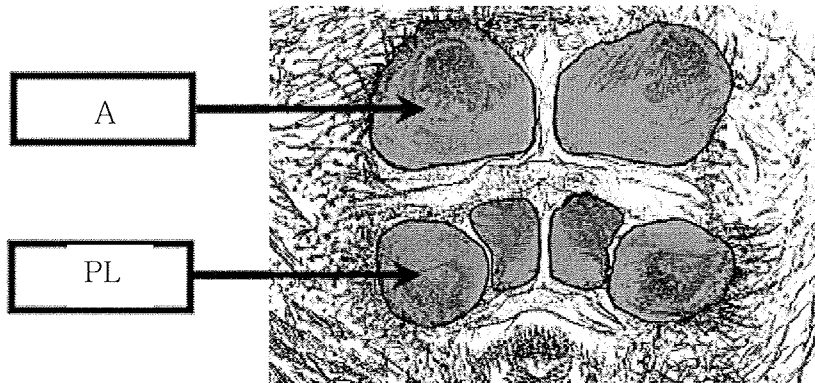
Number of the segments	6
Number of claws	1

Part II. (10 points)

Q22. (1 point)

A	B	C	D	E
	√			

Q23.1. (1 point = 0.5 × 2)



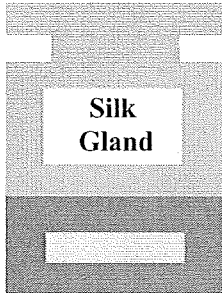
Q23.2. (1 point)

A	B	C	D	E
√				

Q24.1. (1 point)

Code of silk gland	D
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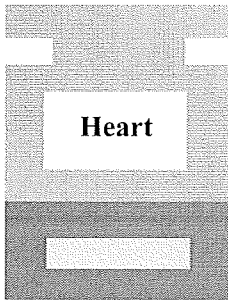
Q24.2. (2 points)



(Place the organ in the provided vial, labeled **Silk gland** in English.)

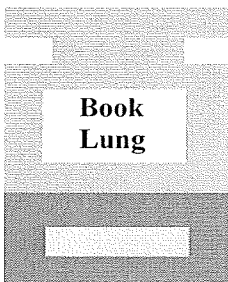
1. 2 points will be given if you dissect proper silk gland with both regions of ampulla and tail.
2. 1 point will be given if you dissect proper silk gland with ampulla region only.
3. 0 point will be given if you dissect incorrect silk gland.

Q25. (2 points)



(Place the organ in the provided vial, labeled **Heart** in English.)

Q26. (2 points)



(Place the organ in the provided vial, labeled **Book lung** in English.)