

Suggested answers to Exercise and Reading to learn

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Ch 1 Introducing biology

Exercise

Multiple-choice questions (p. 1-14)

- 1 D 2 C 3 D 4 D

Short questions (p. 1-15)

- 5 nutrition, excretion, respiration, movement
1 × 4
- 6 A: 1
B: 4
C: 2
D: 3
1
- 7 HKALE Biology 2013 1A Q6

Reading to learn (p. 1-16)

- 1 The disease is caused by certain chemicals secreted by bacteria. 1
The disease is caused by certain organisms which are smaller than bacteria. 1
- 2 The extract of a newly infected plant was still infectious even when the procedure was repeated many times. 1
This shows that the agent causing the disease was not diluted. 1
This would not happen if the agent was a chemical. 1
- 3 Reproduction 1

Ch 2 The cell as the basic unit of life

Exercise

Multiple-choice questions (p. 2-23)

- 1 D 2 C 3 B 4 C
5 C 6 C 7 D 8 B

Short questions (p. 2-24)

- 9 HKCEE Biology 2008 1 Q4

10 a	Eye-piece	Objective	Total magnification
	10X	10X	100X
	10X	20X	200X
	10X	40X	400X

- b i 2.5 mm/7 μ m
= 400
1
- ii Plant cells are larger than animal cells. 1

- 11 HKALE Biology 2011 1 Q3a-b

Structured questions (p. 2-35)

- 12 a Advantages:
It can be used to see ultra-structures. /
It can produce images with higher magnifications. /
It can produce images with higher resolution. / It has a higher resolving power. (any 2) 1 × 2
- Disadvantages:
The cost is high. /
It is difficult to operate. /
The preparation of specimens is complex. /
Living material cannot be viewed. (any 2) 1 × 2
- b i 47 mm 1
ii 47 mm/6500
= 6.91 μ m 1

Mastering Biology 1a Answer

G Psacharopoulos



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