

BIOLOGY
SECTION A
PAPER 2 [4551/2]

No.	Marking Criteria / Sample Answers	Marks	
1 (a) (i)	Gills		1
(ii)	Tracheal system		1
(b)	P : Filaments Q: Spiracles	1 1	2
(c)	(R is ring of chitin which) support the tracheal / prevent the tracheal from collapsing.		1
(d)	Diagram 1.1(b): P1: The filament have numerous thin-walled lamellae to maximise the surface area for gaseous exchange. P2: The gill filaments have thin membrane and covered by a net work of capillaries to transport respiratory gases. P3: The surface of the gills is moist which allows the gases to be dissolved. Any 1P		1
	Diagram 1.2(b) P1: The large number of tracheoles provides a large surface for the diffusion of gases. P2: Tip of tracheoles have thin permeable walls and contain fluid in which respiratory gases can dissolve. P3: Terminal ends of the tracheol remains moist which allows the gases to be dissolved. Any 1P		1
(c) (i)	P1:(The gaseous exchange process occurs over the whole body surface in an <u>Amoeba sp</u>) through simple diffusion. P2:Higher concentration of oxygen in the water surrounding causes oxygen to diffuse into the <u>Amoeba</u> . P3:Higher concentration of carbon dioxide in the cell causes carbon dioxide to diffuse out of the <u>Amoeba</u> . Any 2P	1 1 1	2
(ii)	S: Contractile vacuole		1
(iii)	P1: Freshwater is hypotonic to the cytoplasmic fluid of <u>Amoeba sp</u> . P2: Water diffuses into the cell and fill the contractile vacuole by osmosis P3: When the contractile vacuole is filled with water to its maximum size, it contracts to expel its content from time to time. Any 2P	1 1 1	2

June 2013 P2 Mark Scheme

Chao Zhang



June 2013 P2 Mark Scheme:

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