(2)	EXAM PAPERS PRACTICE

(Total for question = 13 marks)

Mark Scheme

Q1.

Question number	Answer	Notes	Marks
(a)	oxygen;glucose;	in any order	2
	water;carbon dioxide;	in any order	2
(b) (i)	 A to B = 60 seconds; 10 breaths during that period = 10 per minute; 		2
(ii)	 19.5 - 13.5 squares of movement = 6 squares; 1dm³ = 4 squares; 6/4 = 1.5dm³; 		3
	• 0/4 = 1.3diff,		3
(c)	peaks/troughs higher/lower;closer together;		2
Total 1			al 11 marks

Q2.

Questi numb		Answer	Notes	Marks
(a)	(i)	C; (red blood cells)		1
	(ii)	any three from		
		 more carbon dioxide (1) less oxygen (1) moister (1) warmer (1) 		3
	(iii)	 large surface area (1) thin (walled)/wall one cell thick (1) good blood supply (1) moist lining (1) 		3
(b)		thin wall (1)narrow lumen (1)	Allow references to only one blood cell passing through	2
(c)		 breathing (out)/exhalation more difficult/not smooth/shortness of breath/faster breathing rate (1) as lungs would not squeeze out air/forced exhalation(1) 		2

Q3.

Question number	Answer	Notes	Marks	
(a) (i) (ii)	 exhale through tube A; time how long for limewater to go cloudy; replace limewater; inhale through tube B; compare time to go cloudy; more carbon dioxide in exhaled air; quicker/less time to go cloudy with exhaled air; produced by respiration; 		4 marks 3 marks	
(b) (i)	Lung volume Letter Volume in dm³ tidal volume W; 0.4; vital capacity Z; 2.25; • deep/maximum inhale; • followed by maximum/forcefully exhale;	must be in correct order	4 marks 2 marks	
	Total 13 mark			