## Section B

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Answer any two questions. You are advised to spend one hour in

Your answers should be illustrated by large, clearly labelled diagrams, w propriate.

Your answers must be in continuous prose, where appropriate:

Up to 4 additional marks are awarded for quality of language.

Your answers must be set out as in sections (a), (b) etc, as indicated in the question.

9	(a)	Describe the biological significance of the following properties of water:	
	· ·	(i) high heat capacity	[2]
	¥	(ii) high surface tension and cohesion .	[2]
		(iii) universal solvent	[2]
	(b)	Explain the functions of water to living organisms.	[6]
10	(a)	Explain how DNA replicates semi-conservatively during interphase.	[6]
	(b)	Describe phenylketonuria (PKU) as an example of gene mutation.	[6]
11	(a)	Describe how heart action is initiated.	[6]
,	(b)	Discuss the long term consequences of exercise on the cardiovascular system.	[6]
12	(a)	Describe <b>two</b> different methods that can be used to propagate named foo plants naturally.	d [6]
	(b)	Describe the reasons for and advantages of seed dormancy.	[6]