Question number	Answer	Notes	Marks
7 (a)	Cosmic Microwave Background Radiation (CMBR)	Allow one missing word	2
	(Cosmological) Red shift of galaxies	Accept reference to Hubble's Law.	
		Allow higher level idea of ratio of hydrogen to helium as alternative to either marking point.	
(b)	CMBR		4
	MAX TWO from MP1 CMBR appears to be the same in all directions/is everywhere;		
	MP2 Which implies all parts of the Universe were in contact a long time ago;	Allow implication of idea of coming from single point	
	MP3 Wavelength has increased as the universe has expanded;	Allow frequency has decreased	
	MP4 universe was (significantly) hotter long ago;	Allow RA	
	Red Shift of Galaxies		
	MAX TWO from MP5 The further the galaxy is from Earth, the greater the red-shift;	Condone "star" for "galaxy" for MP5	
	MP6 The greater the red-shift, the faster the galaxy is moving away;		
	MP7 Speed of galaxies increases (is directly proportional to) with increased distance;	Allow 'red shift' for 'speed of galaxies'	
	MP8 Relationship between speed and distance implies expansion from a single point or since the Big Bang;	Allow 'galaxies moving apart from each other' for 'relationship between speed and distance'	