Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic : 7_ Astronomy

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Name of the Student:_____
Max. Marks : 13 Marks **Time : 13 Minutes**

Mark Schemes

Q1.

	Answer	Acceptable answers	Mark
i	infrared (radiation)/(rays) (1)		**(1)**
ii	An explanation linking any two from • above the clouds / no clouds/ no weather (1) • image is clearer/more detailed/ not distorted/not blurred (1) • no light pollution (1) • (some) telescopes use gamma/ X-rays/ultraviolet /infrared/microwaves (1) • no absorption (by atmosphere) of gamma/ Xrays/ ultraviolet /infrared/ microwaves (1)	Credit to be given for stating that all telescopes would be better in space, but size and weight may exclude e.g. Jodrell Bank from space. no air/dust/pollution wider field of view/ can use anytime IGNORE 'see further' IGNORE 'it is closer (to the stars/planets)' IGNORE: references to improving understanding / knowledge of space	**(2)**

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Q2.

Question number	Answer	Mark
(i)	(nuclear) fusion	(1)

Question number	Answer	Additional guidance	Mark
(ii)	gravitational (pull)	gravity	(1)

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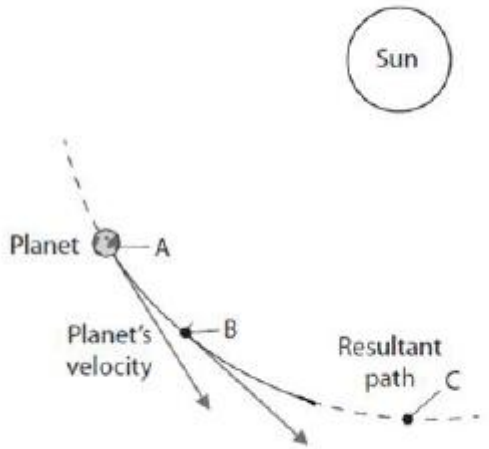
Q3.

	Answer	Acceptable answers	Mark
(i)	D red giant then white dwarf		**(1)**
(ii)	an explanation linking **two** of the following: • Different/more wave(length)s/frequencies (now) detected/collected (1) • because telescopes positioned above Earth's atmosphere or by radio telescopes (1) OR • weaker signal(s) (now) detected/collected (1) • because modern telescopes are more powerful/have greater magnification **or** positioned above Earth's atmosphere/ on top of mountains (1) If no other marks awarded allow 1 mark for idea that: Electronic(s)/computers can process/improve the data/signal information/waves/radiation	named type of em radiation accept CMB for microwave space telescope or named space telescope (because) less or no light/radiation is absorbed by Earth's atmosphere Accept named space telescope eg Hubble/Planck/Compton etc Ignore references to clearer images/more detail/can see further/photographs	**(2)**

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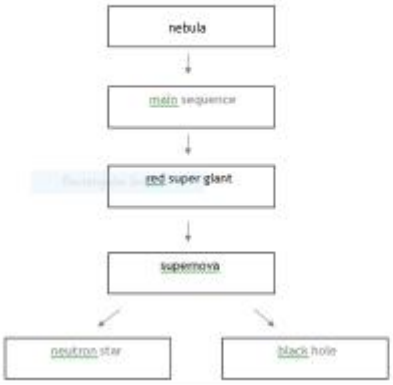
Q4.

Question number	Answer	Additional guidance	Mark
(i)	(force of) gravity/ gravitation		(1)

Question number	Answer	Additional guidance	Mark
(ii)	 Figure 2	Judge by eye. Horizontal line with arrow to the right from C	(1)

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Q5.

Question number	Answer	Additional guidance	Mark
			(3)

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