

Name of the Student: _____

Max. Marks : 19 Marks

Time : 19 Minutes

Q1.

- (a) Most of the Sun is hydrogen. Inside the core of the sun, hydrogen is being converted to helium. What name is given to this process and why is the process so important?

(2)

- (b) Describe what will happen to the Sun as the core runs out of hydrogen.

(3)

(Total 5 marks)

Q2.

Stars are formed from massive clouds of dust and gases in space.

- (a) What force pulls the clouds of dust and gas together to form stars?

(1)

- (b) Once formed a star can have a stable life for billions of years. Describe the **two** main forces at work in the star during this period of stability.

(2)

- (c) What happens to this star once this stable period is over?

(4)

(d) Suggest what might then happen to a planet close to this star.

(1)

(Total 8 marks)

Q3.

Explain how observations at the red end of the spectrum of light from galaxies have led to one theory about the origin of the Universe.

(Total 6 marks)