

Name of the Student: _____

Max. Marks : 19 Marks

Time : 19 Minutes

Q1.

Describe briefly how stars such as the Sun are formed.

(Total 2 marks)

Q2.

Astronomers believe that the Universe is expanding.

(i) How might the Universe have started?

(1)

(ii) State and explain briefly, **one** piece of scientific evidence which may be used to support this belief.

(2)

(Total 3 marks)

Q3.

Nuclear fusion in the Sun releases large amounts of energy.

(i) Explain what is meant by nuclear fusion.

(3)

- (ii) Why is energy released by such nuclear fusion reactions?

(2)

(Total 5 marks)

Q4.

- (a) The Sun is at the stable stage of its life.

Explain, in terms of the forces acting on the Sun, what this means.

(3)

- (b) At the end of the stable stage of its life a star will change.

Describe and explain the changes that could take place.

(6)

(Total 9 marks)