

the blue end of the spectrum. If the star or galaxy is moving away from the observer, its light will be shifted to the red end of the spectrum. This is known as the Doppler Effect or Shift. The Doppler Shifts of galaxies show that they are receding and that the Universe is in a state of rapid expansion. Modern theories about the Universe are based on this flight of galaxies, that is, on the assumption that the Universe is in a state of rapid expansion.

Questions :

- (i) What did Ptolemy theorise? 1
- (ii) What did William Herschel's study reveal about the Universe? 1
- (iii) What did Hubble point out in 1925? 2
- (iv) Find a word in the passage which means 'a group of similar things that are close together'. 1

6. Answer any one of the following questions : 5

(a) What is translation? Briefly discuss the different types of translation. 1+4=5

(b) Write a summary of the following passage : 5

Food is the chief essential material which the body needs for its well-being. It contains essential things for our body called 'nutrients'. Good food is indispensable for health at all stages of life and for satisfactory growth during infancy, childhood, adolescence and adulthood. Wholesome food in adequate quantities is very important for pregnant and nursing women since they undergo severe nutritional stress.

In order to obtain adequate amounts of each of the different nutrients, the daily diet should include appropriate quantities of a variety of different foodstuffs. A diet in which various foodstuffs are mixed in suitable