

1. (a) You are guiding a group of tourists on a nocturnal tour within the Rift Valley and you have been forewarned of an imminent total eclipse. Outline **four** measures that you would take to deal with this eventuality effectively. (8 marks)
- (b) A group of tourists intends to visit a certain marine park during the new moon. Explain **six** ways in which this new moon phase may affect the implementation of this tour. (12 marks)
2. (a) A group of tourists with their guide are lost in the wilderness. Explain how the tour guide will use the southerly declination as a survival technique. (8 marks)
- (b) As a tour guide you are giving an initial briefing on the solar system to a group of tourists. Using an illustration explain to them the relative positions of the planets in the solar system. (12 marks)
3. (a) The sun has certain physical characteristics that enables it to influence touristic activities. Explain **five** ways in which this influence is manifested. (10 marks)
- (b) Outline **five** different areas of study in astronomy relevant to tour guiding. (10 marks)
4. (a) One of the attractions in nocturnal tourism are the stars. Describe **five** physical attributes of the stars. (10 marks)
- (b) A certain tour company intends to promote space tourism. Explain **five** effects of spaceflight on the human body. (10 marks)
5. (a) Climate change has interfered with seasons of the year in various regions. Explain **five** challenges by this phenomenon on tour guiding. (10 marks)
- (b) Describe the qualities that an astronomical guide should possess in order to carry out his or her duties effectively. (10 marks)
6. (a) Mars is the one planet that is most likely to support life in the universe. Describe **five** features of this planet. (10 marks)
- (b) One of the survival methods that a tour guide can use is the East-West direction method. Describe this method. (10 marks)
7. (a) A certain tour company intends to invest in acquiring astronomical equipment. Explain **five** factors they would consider in the choice of the equipment. (10 marks)
- (b) Space tourism has gained prominence in the 21<sup>st</sup> century. Explain **five** effects of this form of tourism on the economy. (10 marks)