

1. (a) Explain how maps are used to determine declination. (10 marks)
- (b) There has been an increase in the number of tourists visiting the outerspace. Identify **five** dangers they may encounter and how they can be protected against them while in space. (10 marks)
- ✓ 2. (a) Many tourists visiting the Kenyan coast are motivated by sunbathing. Outline **five** benefits of getting moderate amounts of sunlight exposure. (10 marks)
- (b) The sun and its atmosphere consist of several zones important for its proper functioning as a major star. Identify any **five** zones of the sun. (10 marks)
- ✓ 3. (a) Describe any **five** phases of the moon seen when the moon moves on its axis. (10 marks)
- (b) Outline the differences between a **solar eclipse** and a **lunar eclipse**. (10 marks)
- ✓ 4. (a) Outline the details you would give to tourists interested in astronomy on planet Mercury. (10 marks)
- (b) Greek's and Romans in ancient civilization observed constellation and gave them different names. Identify **five** groups of constellations they named. (10 marks)
- ✓ 5. (a) Explain the **four** main galactic quadrants of the Milky Way. (10 marks)
- (b) Bodies traversing the solar system may be grouped into solar families. Identify the composition of these solar families. (10 marks)
- ✓ 6. (a) Tourist visiting the lakeside region suddenly realised that the sun was darkening from a total solar eclipse. Explain how a total solar eclipse takes place. (10 marks)
- (b) A group of Astronomers living in North Coast are venturing out for star gazing activity. Outline **five** characteristic that would help them identify stars in the sky. (10 marks)
7. (a) Explain how the winter season contributes to high tourism season in Kenya. (10 marks)
- (b) Explain the phrase "**magnetic declination**" as used in Astronomy. (10 marks)

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