

(1 Mark)

Marks:20 SCIENCE

Std: X Chapter: Human Eye and colourful world Duration:50 minutes

- Q.1. Choose the correct alternative (1 Mark each)
 - 1. The sky appears white during the afternoon because
 - (a) Light is scattered the least
 - (b) Blue does not get scattered
 - (c) Red does not get scattered
 - (d) All colours get scattered
 - 2. When light travels through a prism
 - (a) Only dispersion takes place
 - (b) Only deviation takes place
 - (c) Dispersion and deviation
 - (d) Neither deviation nor dispersion takes place

Q.2. Answer the following

1. Define a rainbow.

| 1. | Define a fambow. | (I IVIAIK) |
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| 2. | Explain the formation of a rainbow with the help of a diagram. | (3 Marks) |
| 3. | (i) What is the angle of deviation? | (1 Mark) |
| | (ii) When is the angle of deviation minimum? | (1 Mark) |
| 4. | (i) What is a spectrum? | (1 Mark) |
| | (ii) Why do different components of white light split up into spectrum when it passes through a trial glass prism? | angular (1 Mark) |
| 5. | Name the colour of spectrum which have (i) Maximum wavelength (ii) Minimum wavelength | (1 Mark) (1 Mark) |
| 6. | Why do stars twinkle? | (3 Marks) |
| 7. | Why does the sky appear blue? | (3 Marks) |
| 8. | What is Tyndall effect? Explain with an example. | (2 Marks) |