

18. The activities of man had adverse effects on all forms of living organisms in the biosphere. Unlimited exploitation of nature by man disturbed the delicate ecological balance between the living and non-living components of the biosphere. The unfavourable conditions created by man himself threatened the survival not only of himself but also of the entire living organisms on the mother earth. One of your classmates is an active member of 'Eco club' of your school which is creating environmental awareness amongst the school students, spreading the same in the society and also working hard for preventing environmental degradation of the surroundings. 3
- (a) Why is it necessary to conserve our environment ?
- (b) State the importance of green and blue dust-bins in the safe disposal of the household waste.
- (c) List two values exhibited by your classmate who is an active member of Eco-club of your school.
19. (a) Define focal length of a spherical lens. 5
- (b) A divergent lens has a focal length of 30 cm. At what distance should an object of height 5 cm from the optical centre of the lens be placed so that its image is formed 15 cm away from the lens ? Find the size of the image also.
- (c) Draw a ray diagram to show the formation of image in the above situation.
20. It is desired to obtain an erect image of an object, using concave mirror of focal length of 12 cm. 5
- (i) What should be the range of distance of an object placed in front of the mirror ?
- (ii) Will the image be smaller or larger than the object. Draw ray diagram to show the formation of image in this case.
- (iii) Where will the image of this object be, if it is placed 24 cm in front of the mirror ? Draw ray diagram for this situation also to justify your answer. Show the positions of pole, principal focus and the centre of curvature in the above ray diagrams.
21. What is atmospheric refraction ? Use this phenomenon to explain the following natural events. 5
- (a) Twinkling of stars (b) Advanced sun-rise and delayed sun-set.
- Draw diagrams to illustrate your answers.
22. What is placenta ? Describe its structure. State its functions in case of a pregnant human female. 5

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