

JSUNIL TUTORIAL

PUNJABI COLONY GALI

10th science sample paper 01

Question no.1 to 4 of 1 mark, 5 to 13 of 2 marks, 14 to 22 of 3 marks and 23 to 25 of 5 marks

Q1. How is rainbow formed?

Q2. What is the structural formula for ethanol?

Q3. If all the waste we generate is biodegradable, will this have no impact on the environment?

Q4. Name the award recently instituted by the government of India in the memory of Amrita Devi Bishnoi.

Q5. Is the position of a star as seen by us is true position. Justify your answer.

Q6. A mirror form 2 times real & inverted image when object is placed at a distance of 10cm. at what distance should an object be placed so that image is 3 times virtual & erect?

Q7. Give reason:

(i) Danger signals are made of red colour.

(ii) The sky appears to be blue during day time to a person on earth.

Q8. (a) What do mean by coliform?

(b) Why there is need to clean aquarium time to time?

Q9. How does electro negativity of an element vary on moving from?

1) Left to right in a period. 2) Bottom to top in a group.

Q10. (a) What is isomerism? (b) Draw the electron dot structure of CO₂

Q11. What are the problems addressed by the cruiser's about large dams?

Q12. What is ovulation & when does it takes place during the menstrual cycle? Where the fertilization does takes place?

Q13. What are sexually transmitted diseases? Name four such diseases. Which one of them damaged the immune?

Q14. (a) An 8cm tall object is placed perpendicular to the principle axis of a convex lens of focal length 25cm. The distance of the object from the lens is 30cm. Find the position, nature and size of the image formed?

Q15. Show hypermetropia eye defect with a ray diagram. Which type of lens is suitable to correct this defect? Show with a diagram a corrected vision.

Q16. (a) Why is the refractive index of a medium always greater than one? Explain briefly.

(b) The refractive index of a diamond is 2.42. What is the meaning of this statement?

Q17. What is esterification? What are its uses?

Q18. Compare & contrast the arrangement of elements in the Mendeleev's Periodic Table & Modern Periodic Law.

Q19. How evolution occurred by a single ancestral linkage?

Q20. How have feathers evolved? Explain.

Q21. What is the contribution of Mendel in genetics?

Q22. Describe the reproductive system of a human male.

Q23. When a magnifying glass converges the sun's rays on a sheet of paper, it starts burning. Why? OR

An object is placed at a point between infinity & optical centre O in front of a concave lens. Using a ray diagram, explain the image formation. What are the properties of the image?

OR

Describe an activity to plot the refraction of a light ray through a parallel glass slab.

