ACBSE Coaching for Mathematics and Science

Class 10 science lab Skill March BOARD EXAM_JSUNIL

TEST PAPER 02 MCQ questions for class 10 science practical

1. A student puts a drop of acetic acid first on a blue litmus paper and then on a red litmus	paper. He woul	d observe
that		

- (A) the red litmus paper turns colourless and there is no change in the blue litmus paper.
- (B) the red litmus paper turns blue and the blue litmus paper turns red.
- (C) there is no change in the red litmus paper and the blue litmus paper turns red. $\sqrt{}$
- (D) there is no change in the blue litmus paper and the red litmus paper turns blue.
- 2. While studying saponification reactions, the following comments were noted down by the students:
- (I) Soap is a salt of fatty acids.
- (II) The reaction mixture is basic in nature.
- (III) In this reaction heat is absorbed.
- (IV) This reaction is not a neutralisation reaction.

Which of these are the correct comments ? (A) I and III only $\,$ (B) I, II and III $\,$ (C) II, III and IV (D) I and II only $\,$

- 3. A student takes 4 mL of distilled water in each of four test tubes I, II, III and IV, and then dissolves an equal amount of four different salts namely NaCl in I, CaCl2 in II, MgCl2 in III and KCl in IV. He then adds 8 drops of the given soap solution to each test tube and shakes the contents of the test tube 10 times. In which test tubes will enough lather (foam) be formed ? (A) I and II (B) II and III (C) I and IV $\sqrt{ (D)}$ III and IV
- 4. A student is asked to study the different parts of an embryo of pea seeds. Given below are the essential steps for the experiment :
- (I) Soak the pea seeds in plain water and keep them overnight.(II) Cut open the soaked seed and observe its different parts. (III) Take some pea seeds in a petri dish. (IV) Drain the excess water. Cover the seeds with a wet cotton cloth and leave them as it is for a day.

The correct sequence of these steps is

- (A) III, I, IV, II √
- (B) III, IV, I, II
- (C) III, I, II, IV √
- (D) III, II, I, IV

5. In a class, students were asked to observe the models/slides/pictures of the skeletons of forelimbs and wings of different organisms. After the observations the students made the following groups of homologous structures. Select the correct group:

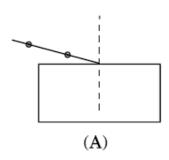
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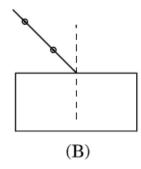
- (A) Wings of a bird and a butterfly
- (B) Wings of a pigeon and a bat
- (C) Wings of a butterfly and a bat
- (D) Forelimbs of a cow, a duck and a lizard $\sqrt{}$
- 6. A student obtained on a screen the sharp image of a candle flame placed at the farther end of laboratory table using a concave mirror. For getting better value of focal length of the mirror, the teacher suggested to him to focus the sun. What should the student do?
- (A) Should move the mirror away from the screen.
- (B) Should move the mirror towards the screen. $\sqrt{}$
- (C) Should move the mirror and screen both towards the sun. (D) Should move only the screen towards the sun.
- 7. While determining the focal length of a convex lens, you try to focus the image of a distant object formed by the lens on the screen. The image formed on the screen, as compared to the object, should be
- (A) erect and highly diminished

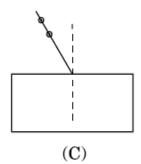
(B) erect and enlarged

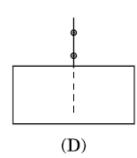
(C) inverted and enlarged

- (D) inverted and highly diminished $\sqrt{}$
- 8. Which of the following is the best experimental set-up out of the four shown for tracing the path of a ray of light passing through a rectangular glass slab? ans (b)

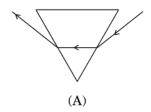


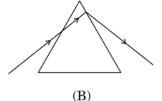


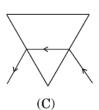


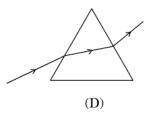


9. In which of the following four diagrams is the correct path of a ray of light passing through a glass prism shown?









Answer Test paper -2: (1) C (2) D (3) C (4) A (5) D (6) B (7) D (8) B (9) A

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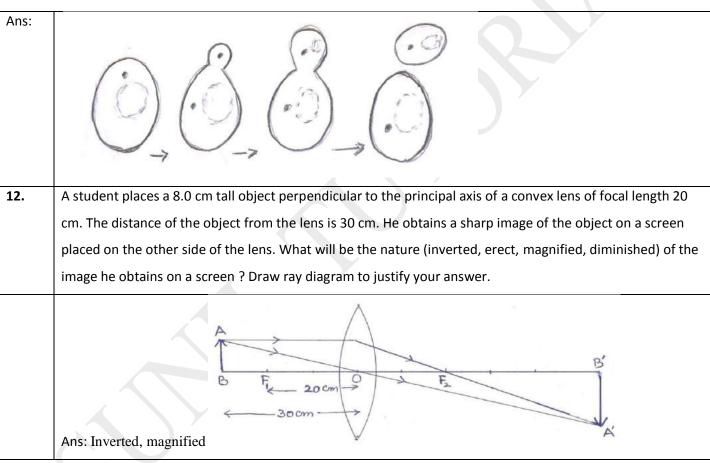
10. A student is studying the properties of acetic acid. List two physical properties of acetic acid he observes. What happens when he adds a pinch of sodium hydrogen carbonate to this acid? Write any two observations.

Ans:
Acetic acid is a colorless liquid.
It is miscible / soluble in water.
(or any other physical property)

☐ On adding a pinch of sodium hydrogen carbonate, Brisk effervescence is observed. ½

Evolution of a colorless / odourless gas. ½

11. A student is viewing under a microscope a permanent slide showing various stages of asexual reproduction by budding in yeast. Draw diagrams of what he sees (in proper sequence).



- 13. When you study a slide showing different stages of budding in a yeast, you observe the following stages:
- I. The bud may get separated from the parent body and develop into a new individual.
- II. The body of the bud develops and gives rise to another baby bud.
- III. A bud comes out in any direction from the body of the parent cell.
- IV. Thus they may form a colony.

The proper sequence of the above stages is (A) II, I, III, IV (B) II, III, I, IV (C) III, II, I, IV (D) III, I, II, IV

Ans: C