



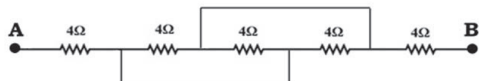
Subject : **PHYSICS**

1. In Young's double slit experiment, fringes of certain width are produced on the screen kept at a certain distance from the slits. When the screen is moved away from the slits by 0.1m, fringe width increases by 5×10^{-5} m. The separation between the slits is 1 mm. Find the wavelength of the light used.

- (1) 700 nm (2) 600 nm
(3) 500 nm (4) 400 nm

2. Equivalent resistance between the points A and B is

- (1) 9.3 Ω (2) 5.5 Ω (3) 3 Ω (4) 7.2 Ω



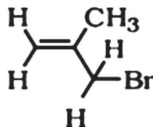
3. The number of electric field of lines emerged out from 4C charge is

- (1) 9×10^9 (2) 1.13×10^{11}
(3) Infinite (4) 4.5×10^{11}

Subject : **CHEMISTRY**

4. IUPAC name of the following compound is,

- (1) 3-Bromo-2-methylbut-1-ene.
(2) 1-Bromo-2-methylbut-2-ene.
(3) 4-Bromo-3-methylpent-2-ene.
(4) 3-Bromo-2-methylpropene.



5. Choose the correct increasing order of boiling point of alkyl halides.

- (1) $R-F < R-Cl < R-Br < R-I$
(2) $R-F > R-Cl > R-Br > R-I$
(3) $R-F > R-Cl > R-Br \approx R-I$
(4) $R-F > R-Cl \approx R-Br > R-I$

6. $CH_3 - CH_2 - CN \xrightarrow[\text{Ether}]{C_6H_5MgBr} A \xrightarrow{H_3O^+} B$ Product 'B' is,

- (1) Propiophenone
(2) 2-Phenylpropanone
(3) 2-Phenylpropene
(4) None of these

Subject : **BOTANY**

7. To achieve the gene silencing which one of the following is being used?

- (1) RNAi only
(2) Antisense RNA only
(3) Both (1) & (2)
(4) None of the above

8. Choose the incorrect statements regarding Pollen grain of the flower.

- (i) They are spherical in shape.
(ii) The outer layer is soft and known as Exine.
(iii) The inner layer is Hard and known as Intine.
(iv) They are about 25-50 mm in diameter.

- (1) (i) and (ii) only (2) (ii), (iii) and (iv) only
(3) (ii) and (iii) only (4) (iii) and (iv)

9. Which one of the following vitamin is synthesized by LAB?

- (1) Riboflavin (2) Pyridoxine
(3) Pantothenic acid (4) Cobalamin

Subject : **ZOOLOGY**

10. Relationship between Fig tree and Wasp is an example of

- (1) Amensalism (2) Mutualism
(3) Commensalism (4) Parasitism

11. Statement 1: DNA is a hydrophilic molecule and it can pass through the cell membrane.

Statement 2: DNA is negatively charged.

- (1) 1 and 2 are correct
(2) 1 is correct and 2 is incorrect
(3) 1 is incorrect and 2 is correct
(4) 1 and 2 are incorrect.

12. Match the Following

- (a) Platyhelminthes (i) Comb plates
(b) Ctenophora (ii) Flame cells
(c) Coelenterata (iii) Cnidoblast
(1) (a)-(i), (b)-(iii), (c)-(ii) (2) (a)-(ii), (b)-(i), (c)-(iii)
(3) (a)-(iii), (b)-(i), (c)-(ii) (4) (a)-(i), (b)-(ii), (c)-(iii)

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