

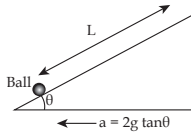


Subject : **PHYSICS**

1. A ball is placed on a wedge as shown in figure. The wedge starts moving to the left with acceleration $2g \tan \theta$. The time taken by the ball to cover a distance L along the plane is

(1) $t = \frac{2L}{g \sin \theta}$ (2) $t = \frac{\sqrt{2L}}{g \sin \theta}$

(3) $t = \sqrt{\frac{2L}{g \sin \theta}}$ (4) $t = \frac{g \sin \theta}{2L}$



2. Two resistors of 3Ω and 6Ω are connected in parallel. If the total current through the resistor is 15 A , then the current through the resistor and the potential difference across the terminals of the parallel combination ($I_{3\Omega} : I_{6\Omega} : V$) is

(1) $5\text{A}; 10\text{A}; 60\text{V}$ (2) $5\text{A}; 10\text{A}; 30\text{V}$

(3) $10\text{A}; 5\text{A}; 60\text{V}$ (4) $10\text{A}; 5\text{A}; 30\text{V}$

3. In an n-p-n transistor, 95% of emitted electrons reach the collector. If the base current is 2 mA , then collector current is

(1) 19 mA (2) 38 mA (3) 9.5 mA (4) 48 mA

Subject : **CHEMISTRY**

4. A molten ionic hydride on electrolysis gives,
 (1) Dihydrogen gas at cathode.
 (2) Dihydrogen gas at anode.
 (3) H^+ ion move towards cathode.
 (4) H^+ ion move towards anode.

5. In the free radical chlorination of methane, the chain initiating step is,
 (1) Formation of methyl radical.
 (2) Formation of chlorine free radicals.
 (3) Formation of hydrogen chloride.
 (4) Formation of chloromethyl radical.

6. Which of the following is the ortho and para directing group
 (1) $-\text{COR}$ (2) $-\text{CN}$ (3) $-\text{NO}_2$ (4) $-\text{NH}_2$

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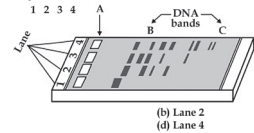
Subject : **BOTANY**

7. Which among the following microbes facilitates the absorption of phosphorus from soil by plants?

- (1) Nostoc (2) Azolla
 (3) Glomus (4) Rhizobium

8. See the picture carefully and choose the DNA which is undigested by restriction endonuclease?

- (1) Lane 4
 (2) Lane 3
 (3) Lane 2
 (4) Lane 1



9. Protein encoded by the gene cryIAb helps to control.

- (1) Cotton bollworm (2) Brinjal fruit borer
 (3) Corn borer (4) Army worm

Subject : **ZOOLOGY**

10. The dorsal portion of midbrain has 4 round lobes called as

- (1) Corpus callosum
 (2) Cerebral aqueduct
 (3) Cranial meninges
 (4) Corpora quadrigemina

11. Statement-1: Modern homo sapiens arose 1.5 million years ago.

Statement-2: Homo sapiens were the first human like beings evolved.

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

12. The Ideal contraceptive method for the females who want to delay pregnancy is

- (1) Cervical caps
 (2) Periodic Abstinence
 (3) CuT
 (4) Saheli

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