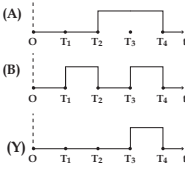




Subject : **PHYSICS**

1. The given figure shows the wave forms for two inputs A and B and that for the output Y of a logic circuit. The logic circuit is
- (1) OR gate  
(2) AND gate  
(3) NOT gate  
(4) NAND gate
2. Velocity of a particle moving in a straight line varies with its displacement  $v = (\sqrt{4 + 4S})\text{m/s}$  as displacement of particle at time  $t = 0$  is  $s = 0$ . Displacement of particle time  $t = 2\text{s}$  is
- (1) 8 m      (2) 10 m      (3) 12 m      (4) 15 m
3. On a planet, a body is let fall freely from a height 16m reaches the ground in 2s. If the length of a simple pendulum is 1m on that planet, its time period is
- (1) 3.14 s      (2) 6.24 s      (3) 2.22 s      (4) 5.17 s



Subject : **BOTANY**

7. Choose the incorrect statement regarding the plant Wolffia?
- (1) It is the smallest flowering plant in the world.  
(2) It is a rootless plant.  
(3) It belongs to gymnosperms.  
(4) It is a hydrophyte.
8. Deficiency of which elements in plants cause delay in flowering?
- (1) N, S, Mo      (2) N, K, S  
(3) N, Ca, Cu      (4) N, K, Fe
9. How many ATP molecules will be produced by one NADH and one  $\text{FADH}_2$ ?
- (1) 4 & 2      (2) 4 & 3      (3) 3 & 2      (4) 2 & 3

Subject : **ZOOLOGY**

10. Choose the incorrect statement about Thalassaemia.
- (1) It is an autosomal recessive disorder.  
(2) Anaemia is due to abnormal Haemoglobin production.  
(3) In  $\beta$ -thalassaemia, mutation occurs in chromosome 11.  
(4) It is a qualitative disorder.
11. The gland that regulates the sleep wake cycle is located in
- (1) Dorsal side of forebrain.  
(2) In a bony cavity called Sella turcica.  
(3) On either side of trachea.  
(4) Behind the sternum.
12. Following are the accessory glands of male reproductive system except
- (1) Prostate      (2) Bulbourethral glands  
(3) Bartholin glands      (4) Seminal vesicles

Subject : **CHEMISTRY**

4. Total number of atoms in face-centered cubic unit cell is
- (1) 2      (2) 4      (3) 3      (4) 1
5. Which compound is formed in borax bead test?
- (1) Ortho boric acid  
(2) Boric oxide  
(3) Sodium metaborate  
(4) Diborane
6. Which metal is protected by a layer of its own oxides?
- (1) Cu      (2) Au      (3) Ag      (4) Al

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