Date 5/3/2010

H. S. C. PHYSICS - PAPER II

(LIGHT, ELECTRICITY AND MAGNETISM, MODERN PHYSICS)

Time: 2 Hrs.)

Question Paper: March 2010

(Max. Marks: 40

Note: Please See to Question Paper March 2008, TIONPAPERS COM

- Q. I. Select and write the most appropriate answer from the given alternatives for each subquestion.
- (i) A parallel beam of light travelling in glass is incident obliquely on water surface. After refraction, its width.
 - (a) decreases
- (b) increases
- (c) remains same
- (d) becomes zero
- (ii) The resistance of galvanometer is G. If S is the resistance used to convert the galvanometer into an ammeter, then the effective resistance of the ammeter is
 - (a) G + S
- (b) G S

- (iii) S. I unit of magnetic potential is
- (a) J / A m2
- (b) J / A m
- (c) Wb / m2
- (d) Wb / A m
- (iv) For destructive interference, the phase difference between two waves should be
- (a) $0, \frac{\pi}{2}, \pi, \dots$ (b) $0, 2\pi, 4\pi, \dots$
- (c) π, 3π, 5π, ...
- (v) Which logic gate corresponds to the logical equation, Y = A + B?
- (a) NAND
- (b) NOR
- (c) AND

(d) OR

- (vi) The reflected waves from the ionosphere are
- (a) ground waves

- (b) sky waves
- (c) space Waves UNIVERSI (d) very high frequency waves

