

# Jharkhand University of Technology, Ranchi

1st Semester B.Tech. Examination, 2021

Subject : Physics-I

Subject Code : BSC-101

Time Allowed : 3 Hours

Full Marks : 70

Pass Marks : 21

*Candidates are required to give the answers in their own words  
as far as practicable.*

Question No. 1 is compulsory and  
answer any four from the rest.

2×7=14

1. (i) In Young's double slit experiment, the distance between two consecutive dark fringes  $\beta$  is
- (a)  $\frac{d}{D} \lambda$  (b)  $\frac{D}{d} \lambda$   
~~(c)  $\frac{d}{\lambda D}$~~  ~~(d)  $\frac{D}{\lambda d}$~~
- (ii)  $\nabla \left( \frac{1}{r} \right)$  is
- (a)  $a$  (b)  $\vec{r}$   
~~(c)  $-\frac{\vec{r}}{r^3}$~~  ~~(d)  $-\frac{\vec{r}}{r^2}$~~
- (iii) A particle is describing S.H.M. of amplitude 0.1 cm, its velocity while passing through the neutral point is 3 metres/sec. Its frequency is
- (a) 277.3 cycles per sec ~~(b) 377.3 cycles per sec~~  
~~(c) 477.3 cycles per sec~~ (d) 577.3 cycles per sec
- (iv) The dimension of  $\frac{1}{\sqrt{\mu_0 \epsilon_0}}$  is
- ~~(a)  $LT^{-1}$~~  (b)  $MLT^{-2}$   
 (c)  $T^{-1}$  (d)  $LT^{-2}$
- (v) The relation between  $\vec{D}$ ,  $\vec{E}$  and  $\vec{P}$  is
- ~~(a)  $\vec{D} = \epsilon_0 \vec{E} + \vec{P}$~~  (b)  $\vec{D} = \epsilon_0 \vec{E} - \vec{P}$   
 (c)  $\vec{D} = \epsilon_0 \vec{P} - \vec{E}$  (d)  $\vec{D} = \epsilon_0 \vec{P} + \vec{E}$
- (vi) The relation between  $\vec{B}$ ,  $\vec{H}$  and  $\vec{M}$  is
- ~~(a)  $\vec{B} = \mu_0 (\vec{H} + \vec{M})$~~  (b)  $\vec{B} = \mu_0 (\vec{H} - \vec{M})$   
 (c)  $\vec{B} = \mu_0 \frac{\vec{H}}{\vec{M}}$  (d)  $\vec{B} = \mu_0 \frac{\vec{M}}{\vec{H}}$

# B Tech Semester 1st 2nd Engineering Chemistry Ch 101

**TD Snyder**



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