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## Physics MCQs for NET, IAS, State-SET (KSET, WBSET, MPSET, etc.), GATE, CUET, Olympiads etc. Part 8

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## Question:

If young's double slit experiment is performed in water.
$A$. The fringe width will decreases
B. The fringe width will increase
c. The fringe width will remain unchanged
D. There will be no fringe

## Question:

The first diffraction minimum due to single slit diffraction is $\theta$, for a light of wave length $5000 \AA$. If the width of the slit is $1 \times 10^{-4} \mathrm{~cm}$. then the value of $\theta$ is
A. 300
B. 450
C. 600
D. 150

## Question:

Non-coherent sources emit light beam of intensities Iand4I. the maximum and minimum intensities in the resulting beam are
A. 9Iand3I
B. 9Iand5I
C. 5I and $I$
D. 5Iand3I

## Question:

Light propagates 2 cm distance in glass of refractive index 1.5 in time t0.In the same time 0 , light propagates a distance of 2.25 cm in a medium. The refractive index of the medium is

```
A. }\frac{4}{3
3
```

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C. }\frac{8}{3
D. None of these
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## Question:

Two wave fronts are emitted from coherent sources of path difference between them is 2.1 micron. Face difference between the wave fronts at that point is $7.692 \pi$ Wave length of light emitted by source will be
A. $5386 \AA$
B. $5400 \AA$
C. $5460 \AA$
D. $5892 \AA$

## Question:

A spherical air bubble in water will act as
A. Convex lens
B. Concave lens
c. Glass plate
D. Plano convex lens

## Question:

A concave lens can be used as a simple magnifier if the object lies
A. Beyond f
B. Within the focal length
c. Between f and 2 f
D. At 2 f

## Question:

For an equilateral prism the angle of minimum deviation is 300 . Then the refractive index of the material of the prism is
A. $\frac{1}{2}$
B.
C. 4
D. 22

