

TALEEMI DUNYA

Test Syllabus: Unit # 9

St. Name		Test	physics	T. Marks	30	Time	60 Min
F. Name		Class	11 th	T. Code	U#9	T. Date	

NOTE: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that Question with Marker or Pen ink. Cutting or filling two or more circles will result in zero mark in that question. **6.**

1.The locus of all points in a medium having the same phase of vibration is called:							
a	Crest	b	Trough	c	Wavelength	d	Wave fort
2.The distance between two consecutive wave fronts is called:							
a	Time period	b	Frequency	c	Wavelength	d	Displacement
2. Which one of the following is nearly monochromatic light?							
a	Light from fluorescent tube	b	Light from sodium lamp	c	Light from neon lamp	d	Light from simple lamp
4.Two sources of light are coherent if they emit rays of							
a	Same wavelength	b	Same amplitude of vibration	c	Same wave length with constant difference	d	Same amplitude and wavelength
5.Sodium chloride in a flame gives out pure:							
a	Blue light	b	Yellow light	c	Red light	d	White light
6.The condition of destructive interference of two coherent beams that the path difference should be							
a	Integral multiple of $\lambda/2$	b	Integral multiple of λ	c	Odd integral multiple of $\lambda/2$	d	Even integral multiple of λ

Q.2 Write short answers of the following questions.

(8x2=16)

1. Define wave front.
2. Define Huygens's principle.
3. Define interference of light waves.
4. Define Young's double slit experiment.
5. Define Michelson's interference.
6. What is meant by direction of light?
7. Define diffraction grating.
8. Can the visible light produce interference fringes?

NOTE: Attempt the long questions.

(4+4=8)

3(a) Explain Newton's ring.

(b) In a double slit experiment the second order maximum occurs at $\theta = 0.25$ the wavelength is 650nm. Determine the slit separation,