

BE (I & II Sem.) EXAMINATION, Nov.-Dec, 2015
UIT (Autonomous) RGPV
Engineering Physics / Physics
PH – 1051 / BE - 201

Time : Three Hours
 Maximum Marks : 100

Note : Note : Attempt all questions. All questions carry equal marks. Parts a,b,c of each question are compulsory, and d & e part will have an internal choice. All subparts of a question should be answered at one place.

UNIT - I

- | | | |
|------|---|----|
| 1 a. | What is de Broglie hypothesis? Why we cannot observe matter wave practically for macroscopic object? | 3 |
| b. | Derive momentum and energy operators. | 3 |
| c. | Distinguish between phase velocity and group velocity. Derive relation between them. | 4 |
| d. | State Heisenberg uncertainty principle? Apply it to prove that electron cannot exist independently inside the nucleus.
Calculate the uncertainty in the position of a dust particle with mass equal to 1 mg if uncertainty in its velocity is 5.5×10^{-20} m/s. | 10 |

OR

- | | | |
|----|--|----|
| e. | What are the properties of an acceptable wave function? Give its physical significance. Derive the energy eigen values and normalized wave functions for a particle in one dimensional infinite square well potential of width L . | 10 |
|----|--|----|

UNIT – II

- | | | |
|------|--|----|
| 2 a. | Using Rayleigh criterion derive resolving power of grating. | 3 |
| b. | What do you mean by coherent sources? Give the two ways to get them with examples of each. | 3 |
| c. | Describe Michelson interferometer with diagram. What is the condition to get circular fringes? | 4 |
| d. | Describe the formation of bright and dark circular fringes by reflected monochromatic light in the Newton's ring experiment. What will happen to the observed rings if a drop of water is introduced between the glass plate and the lens?
In a Newton's ring experiment the diameter of the 10^{th} ring changes from 1.40cm to 1.27cm when a liquid is introduced between the lens and the glass plate. Calculate the refractive index of the liquid. | 10 |

OR

- | | | |
|----|---|----|
| e. | Explain the phenomenon of double refraction in a calcite crystal. Describe the construction, working, and use of Nicol prism. Differentiate between quarter-wave plate and half-wave plate. | 10 |
|----|---|----|

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