



- (a) Explain the nature of nuclear forces. 7
- (b) Explain the estimation of minimum energy confining particle by uncertainty rule. 7
- Q-6** **Attempt all questions** (14)
- (a) What is interference? Explain the types of interference in terms of maxima and minima. 7
- (b) Explain superposition principle for two or more waves. 7
- Q-7** **Attempt all questions** (14)
- (a) What is Schrodinger wave equation? Why it's useful. 7
- (b) Explain the physical interpretation of wave function. 7
- Q-8** **Attempt all questions** (14)
- (a) What is tunneling of particles across the one rectangular potential barrier? Explain. 7
- (b) What is quantum dots? Explain quantum dot with example. 7

