B Sc VI Sem (Physics)
Quantum Mechanics

Q. 1.   The angular momentum of the electron in the nth orbit is given by :

   (a) nh   (b) $\frac{h}{2\pi n}$ (c) $n\frac{h}{2\pi}$ (d) $n^2\frac{h}{2\pi}$

Q. 2.   Which of the following lines of Balmer series has longest wavelength:

   (a) H_α (b) H_β (c) H_γ (d) None of these

B Sc VI Sem
Mathematical Physics

Q. 1.   The square root of complex number 15-8i is equal to:

   (a) (1-4i)   (b)   (1+4i)   (c)   ± (1-41)   (d)± (1+4i)

Q. 2.   The recurrence formula $xJ_n' = nJ_n - xJ_{n+1}$ is related to:

   (a)   Legendre Functions   (b)   Bessel's Functions

   (c)   Hermite Functions   (d)   Laguerre's Functions