CLASS TEST-03

Answer All Ancetions.

Time = 50 Mums

Assume the builded missing data Flany

Symbols have usual meanings

- Using WKB Approximation, find an expression

 for energy levels of Spinlers particles of mark m'

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 moving in one dimensional box with rigid walls

 at x=0 and x=L.
- A particle at time t=0 in the ground state (n=1)

 of an infinite-potential box with walls at x=0

 and x=L is Aubjected to time dependent

 perturbation V(t) = x2e to find out the

 probability of the particle in the first excited

 Atate (n=2).
- (3) Find the allowed energies of the Harmonic DSullator using WKB method.
- Explain the meaning of Transition Probability and Explain the meaning of Feami Golden Rule establish an expression of Feami Golden Rule using time dependent pushfits presule to the eng. Point out the physical significance to the eng. Point out the physical significance to the eng.

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