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	Assignment Question PAGE NO.: DATE: 11
	2nit-I
	- in the first and will show that the distance
9.1.	Deduce expression for energy of a
	Deduce expression for energy of a particle trapped in a one dimentional
	boxpored to regularized at months
Q.2.	Establish relationship between particle
	and group velocities.
Q.3.	Desive the time dependent and time
	independent schrödinger nave equation.
Q.4.	State and explain uncertainty principle.
a ·5·	Derive the expression for energy and
90	momentum operation.
	95. Explain He Roughoigh & Orthoniain.
	Dokume exceptions for or sexot ina
	The state of the s

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Unit-II

	in not in
Q.1.	Explain Newton's rings exerciment in detail and also show that the cliameter
	I tail and also show that the comment
	de de distantional
	of no dark ring
15.54.5	of nth dark ring is proportional to In.
Q2.	The Harry Wallett Con (1)
4.7	double slit experiment, and find
	double set experience
2.3.	Deine on expression for the intensity
7	in fraunhofer difficultion at a single Slit.
	1) fraunkojes - fo
	Slet.
9.4.	
	half the half of Million
6,5	Explain the Rayleige
	Deline expussion for tessing
	prives of gracting.
	Desire expussion for o resolving power of gracting.

	PAGE NO.:
	Drif III
Q.1.	1 1 - t = 11 00 10 1
4	mark the expression
	Tall voltage and Hall Coefficient.
Q·2·	Explain motion of electron in solid
	on the basis of temin Panne Malel
B.3.	Distinguish between intrinsic and
	externes les les la
a	mist seniconductor.
Q.4.	Explain P-N Junction déode and its
	V-I characteristics.
0.5	Derive the Black's Hamana and and
	Derive the Bloch's theorem and explain
6 (the importance of Bloch's theorem.
Q.6:	Explain the construction and working
	with the help of V-I characteristics.
	of these classical
	of these clerices.
	(i) Photo déode (iii) Solar cell
	(ii) Tonnel diode (iv) Lever Diode.

	PAGE NO.:
	Unit-1V.
	What are transition probabilities?
	obtain the relation between Einsteins
	toonsition probabilities.
6,2,	Describe construction and working
	of Ruby / Nd: YAG Laser.
Q.3.	Explain the construction and working
	of Co2 / He-Ne Lasie.
9.4.	Explain the principle of propagation
	of light waves within a fibre. Derive
	expression for acceptance angle and
0.0	define acceptance cone.
<u></u> \(\text{\tin}\text{\tetx{\text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\ti}}}\tint{\text{\text{\text{\text{\text{\text{\text{\ti}}\tint{\text{\text{\ti}\text{\text{\texi}\til\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\te	
	multimode step index fibre and
	graded incluse fiber. With the help of
	diagram. On show of the
	Townsh diada (1) Common Diada
of Englishing	

Drit- F Q.1. Explain how Maxwell modified the Ampere's law to accept this as one of the Maxwell's equations.

State and explain gauss's and Stoke's theorem. Calculate the electric field and electrostatic potential for a charge distribution ? find the maxwell's equation in vacuum find the curl of following function. f = 3x2 - 2yzk + 4x2yzj Derive equation of Continuity. find the gradient of following 4x2-3xy-8z2y.