	SAP ID-60004200132 Nome - Ayosh Jain Div-Ji Experiment 5: Newton's Ring:
	and the same of th
1>	Write any one application based on this experiment
	related to your core engineering branch.
Ans) Newton's sing in optics are a series of concentric light
-	and dark coloured bands absorbed between two pieces of
	glass when one is convex and rest on its convex side on
	another piece having a flat surface.
4	2) An impostant application of Newton sing experiment is in
	determination of wavelength of light. Wavelength based
	computing is an unconventional approach to optical computing
	3) Optical computing or photonic computing use photons produced
	by losers or diodes for computation. For decades, photons
	have shown promise to enable a higher bandwidth than
	electrons used in conventional computers. Most research
	projects focus on replacing current computer components
	with optical equivalents, resulting in an optical digital
	computer system processing binary data.
	4) wavelength based computing can be used to solve the B-SAT
	problems with n-variables, m clauses and with no more
-	than 8 variables per clause.
	5) Each wavelength, contained in a light ray is considered as
	a possible value assignments to n-variables.
	6) The optical device contains prisms and misrors are used
	to discriminate proper wavelength which satisfy the
	formula.
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2)	Explain any other technique or experiment other than the
	one performed which will achieve the result and fulful the
	ain of experiment
Ass	1) This method Privalves Indentifying a clearly visible don't
	fringe and calculating the thickness of air film creating
W. 755	the path difference causing formation of the dark
	folige.
-	2) The formula is (1-t15)2+ 81s= R2
	where R is radius of curvature, t is thickness and
- Partie	ris radius of ring.
	3) Simplification yields
Table	Rtis + 8is
andt.	2tis some of some or and
	4) t= nd, for 15th dork fringe in= 15
	t15 = (15x 5896 x10-10)/2 = 4.22 x10-6 m.
	815 = 2.90 × 10-3 m
	5) Substituting the values of tis and ris in equation (i);
	R = (4.22 × 10-6)2 + (2.40 × 16-3)2
	8. 8uu x10-4
	R = 0.95 m. April 6 19 April April 19 19 19 19
	c) It may be noted that the radius of curvature
	obtained through this method (0.95m) is in close
	arrangement with the result obtained through general
	method.