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VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE

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S.Y. B.Sc. SEIM: IV

INTERNAL TEST

DATE: 15th March, 2016

SUB: INSTRUMENTATION (VOC.)

TIME: 03:00 pm to 04:30 pm TOTAL MARKS: 25

SUB CODE: US04CINV02

Q. 1 (1)	Choose the correct answer.	[03]
1-7	(A) Wein bridge (B) L-C (C) Phase shift	SO SO
(2)	Normally in LASER and in LED emission occurs.	12°
(3)	(B) Spontaneous, Absorption (D) Stimulation (B)	LIBRAF
	In light propagate through total internal reflection. (A) fiber optics (C) Co-axial (B) Twisted pair (D) None of above	Nag
Q.2 (1) (2) (3)	Answer the following in short.(Attempt any two, each two marks) What are Barkhausen's criteria? Enlist difference between LED and LASER. List different losses in fiber optics.	[04]
Q.3	Explain astable multivibrator with necessary circuit diagram and wave forms. OR	[06]
Q.3	Give classification of oscillator and explain Colpitt's oscillator in detail	[06]
Q.4	List different types of laser lancing mediums and lasers, Explain Co ₂ Lasers in detail	[06]
Q.4	OR List types of Led and explain surface emitting Led in detail with schematic diagram.	[06]
Q.5	Describe PIN diode	[06]
Q. 5	Discuss fiber optics construction.	[06]

-: All the best:-