MODEL PAPAER

BOARD DIPLOMA EXAMINATIONS

C-23, EC-105, ELECTRONIC COMPONENTS AND POWER SUPPLIES FIRST YEAR

YEAR END EXAMINATION

TIME:3 HOURS		MAX MARKS:80
	Part-A	10×3=30
Instructions:	(1) Answer all questions.	
	(2) Each question carries three marks	and account
	(3) Answer should be brief and straight to the point and shall r five simple sentences.	iot exceed
1. Define	e the term capacitance.	(CO1)
2. Comp	are the features of carbon and wire wound potentiometers.	(CO1)
3. Sketcl	h the I.S.I symbols of any three switches.	(CO1)
4. Distin	4. Distinguish between Drift and Diffusion currents.	
5. Comp	are Avalanche &Zener breakdown.	(CO2)
6. Relate	e alpha, beta and gamma Factors.	(CO3)
7. Interp	ret the advantages of JFET over BJT.	(CO3)
8. Write	e any three applications of photo diode.	(CO4)
9. List ar	ny three materials used for the construction of LED.	(CO4)
10. List ar	ny three specifications of loud speakers.	(CO5)
	Part-B	5 ×10=50
Instructions:	(1) Answer any 5 questions.	
	(2) Each question carries 10 marks	ante de la la compania de la compani
	(3) Answer should be comprehensive and the criterion for value not the length of the answer.	uation is the content but
11. Explai	n the use of Ferrites in the construction of high frequency inducto	rs. (CO1)
12. Explai	n the working of general-purpose electromagnetic relay and ment	ion its
appli	cations.	(CO1)
13. Explai	n the formation of P type and N-type semiconductors.	(CO2)
14. Explai	n the working of PN junction Diode with forward & reverse biasing	g. (CO2)
15. Expla	ain the working of NPN and PNP transistors.	(CO3)
16. Expla	ain the construction and principle of operation of n channel JFET.	(CO3)
17. Explai	n the construction, operation and characteristics of photo diode.	(CO4)

(CO5)

18. Explain the working of dynamic microphone with its polar characteristics.