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Question Paper Code : 80122

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019

Fourth Semester

Electronics and Communication Engineering

EC 8453 — LINEAR INTEGRATED CIRCUITS

(Common to B.E. Medical Electronics/B.E. Robotics and Automation Engineering/ B.E. Biomedical Engineering)

(Regulation 2017)

Time : Three hours | Maximum : 100 marks

(Codes / Tables / Charts to be permitted, if any may be indicated)

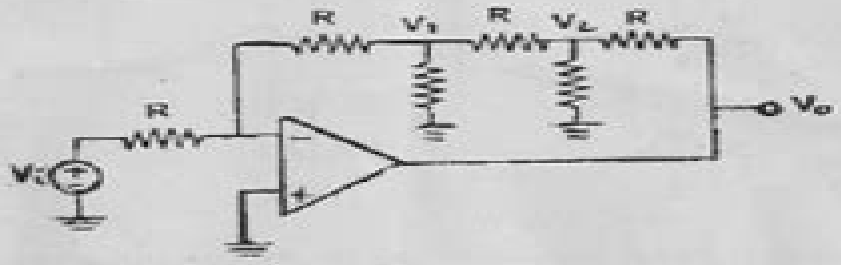
Answer ALL questions.

PART A — ($10 \times 2 = 20$ marks)

1. State the significance of current mirror circuit.

2. Mention the application of LF156.

3. Find the gain of V_o / V_i of the circuit.



4. How does a zero crossing detector work?

5. What is Gilbert multiplier cell?

6. List the basic building blocks of PLL.

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YCT Expert Team

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Proceedings ,1976 **Journal of the Institution of Water Engineers and Scientists** Institution of Water Engineers and Scientists,1978 EDN. ,1968 *Reliability of Power Apparatus & Systems* ,1976 **2025-26 DFCCIL CBT-2 Executive Signal & Telecommunication Solved Papers & Practice Book** YCT Expert Team , 2025 26 DFCCIL CBT 2 Executive Signal Telecommunication Solved Papers Practice Book 240 495 E This book contains 4 sets of previous year solved papers and 10 sets of practice book EEE. ,1969 *Electronics World* ,1968 **Linear Integrated Circuits** Theodore F. Bogart,1983 *Proceedings of the IEEE 1999 Custom Integrated Circuits Conference* ,1999 **Conference Proceedings** ,1981 *Volume of Technical Papers* , **Astronautics & Aeronautics** ,1977 Books in Series, 1876-1949 R.R. Bowker Company,1982 **Proceedings of the Symposium on High Voltage and Smart Power ICs** Muhammed Ayman Shibib,1989 **The Publishers' Trade List Annual** ,1971 *National Union Catalog* ,1978 Includes entries for maps and atlases **Large Scale Systems** F. G. Filip,I. Dumitrache,S. S. Iliescu,2002 This volume contains the papers presented at the 9th IFAC Symposium on Large Scale Systems Theory and Applications LSS 2001 held in Bucharest Romania 18 20 July 2001 Its aim was to address the control aspects of those industrial economic social and environmental systems whose characteristics are high dimensionality non linearity and uncertainty associated with a multitude of structural forms with intense and time critical information exchange and efficient co ordination The symposium covered all major aspects of large scale complex systems including methodological aspects technological solutions and practical applications methodological aspects and those devoted to practical applications Several invited sessions were organised including papers from leading world experts The papers are ordered in accordance with the technical sessions Session topics include methodology and application fields traditional to this Symposium series Topics covered include the following modelling and model reduction decentralized control and estimation hierarchical control intelligent and fuzzy control nonlinear dynamics in complex systems complex systems theory and analysis water gas power systems large scale CIMs and production planning and scheduling communication and information systems transportation systems modelling and control of wastewater treatment plants and societal systems modelling planning and management technical programme such as decision support systems and risk and governance in large scale systems More recent issues such as risk management and human decision in large scale systems were well received by the symposium participants and provide an extra dimension to volume

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