



H1073

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Scheme for Valuation/Answer Key

*Scheme of evaluation (marks in brackets) and answers of problems/key
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019*

Course Code: EC462

Course Name: MIXED SIGNAL CIRCUITDESIGN

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks.

Marks

- | | | |
|---|-------------------------------------------------|------|
| 1 | a) cktdgm -2, gain – 3, output impedance - 3 | (8) |
| | b) cktdgm -2, working – 3, adv - 2 | (7) |
| 2 | a) cktdgm -2, working – 2, output impedance - 3 | (7) |
| | b) cktdgm -3, output impedance - 5 | (8) |
| 3 | a) effect - 5 | (5) |
| | b) cktdgm -4, output impedance - 6 | (10) |

PART B

Answer any two full questions, each carries 15 marks.

- | | | |
|---|-------------------------------------------|------|
| 4 | a) Ckt-4, miller effect-2, derivation - 4 | (10) |
| | b) Gain - 5 | (5) |
| 5 | a) Ckt -4, working -4 | (8) |
| | b) Block diagram – 4, explanation - 3 | (7) |
| 6 | a) Ckt -4, explanation -4 | (8) |
| | b) Principle -3, ckt - 4 | (7) |

PART C

Answer any two full questions, each carries 20 marks.

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|---|-----------------------------------------------------------------------|------|
| 7 | a) Charge injection effect -2, ckt – 3, clock feed through -2, ckt -3 | (10) |
| | b) Ckt – 4, working - 6 | (10) |
| 8 | a) Specifications (3), explanation - 7 | (10) |
| | b) Ckt -5 , explanation -5 | (10) |
| 9 | a) Ckt – 4 , explanation -6 | (10) |
| | b) Ckt -4, explanation -6 | (10) |
