



G1011

Pages 2

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Scheme for Valuation/Answer Key

Scheme of evaluation (marks in brackets) and answers of problems/key

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION (S), MAY 2019

Course Code: EE401

Course Name: Electronic Communication

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 5 marks.

	Marks
1 Figure- 2 + derivation-3	(5)
2 Figure- 2 + role of mixer-3	(5)
3 Figure- 2 + explanation of important stages-3	(5)
4 Figures-2, features (3 points each)-3	(5)
5 Fig.- 2 + relevance- 3	(5)
6 Fig. 1+ relevance- 4	(5)
7 Fig. 3 + explanation-2	(5)
8 Fig. 1+ Concept- 2 + role-2	(5)

PART B

Answer any two full questions, each carries 9 marks.

9 a) $m=1/3$, $f_{SB}=9\text{ k} \& 11\text{ kHz}$, amplitude-2.5 V, BW=2kHz - 4 marks, spectrum-1	(5)
b) Feature comparison for specific application-5	(5)
10 a) Fig.-2 + explanation of important blocks- 4	(6)
b) Fig. and explanation- 2 each	(4)
11 a) Circuit-2 + explanation-3	(5)
b) Circuit-2 + explanation-3	(5)

PART C

Answer any two full questions, each carries 9 marks.

12 a) Derivation of range equation-5	(5)
b) Fig. 2+ explanation- 3	(5)
13 a) Fig. 2 + Explanation- 3	(5)
b) Fig. 2 + Explanation- 3	(5)
14 a) Statement and explanation-4	(4)
b) Fig-2+ explanation of the stages-4	(6)

PART D

Answer any two full questions, each carries 12 marks.



G1011

Pages 2

- 15 a) Fig. 2 + 2 features- 2 (4)
- b) (Fig- 1 + Explanation-2) x 2 (6)
- 16 a) Fig-2+ explanation-2 (4)
- b) Explanation-3+ reduction (at least 2 points) -3 (6)
- 17 a) Fig. 2+ Explanation-3 (5)
- b) Fig-2+ explanation of important stages-3 (5)

