

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: EC482

Course Name: Biomedical Engineering

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks.

- | | | Marks |
|---|---|-------|
| 1 | a) 2- Marks Each. | (8) |
| | b) Diagram-4marks, Explanation -3 Marks | (7) |
| 2 | a) Block diagram – 3 Marks. | (6) |
| | Explanation -3 marks | |
| | b) Diagram-5marks, Explanation -4 Marks | (9) |
| 3 | a) Any 2 surface electrodes -3.5 marks each | (7) |
| | b) Diagram -4 Marks . Explanation- 4 Marks | (8) |

PART B

Answer any two full questions, each carries 15 marks.

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|---|---|------|
| 4 | a) Diagram of any spirometer. Diagram 4 marks explanation 4marks. | (8) |
| | b) Waves 2 marks, freq and amplitude 3 marks, Mental condition 2 mark | (7) |
| 5 | a) Diagram 5 marks, explanation 5 marks | (10) |
| | b) Diagram 3marks Explanation 2 marks | (5) |
| 6 | a) Diagram 5 marks, explanation 4marks | (9) |
| | b) Diagram 3 marks Explanation 3 marks | (6) |

PART C

Answer any two full questions, each carries 20 marks.

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|---|--|------|
| 7 | a) Principle 4 marks, 3 modes 2 marks each | (10) |
| | b) Diagram 5 marks, explanation 5 marks | (10) |
| 8 | a) Different generations 6 marks Explanation 4 marks | (10) |
| | b) Macro shock 5 marks, and micro shock 5 marks | (10) |
| 9 | a) Block diagram 5 marks explanation 5 marks | (10) |
| | b) Block diagram 5 marks explanation 5 marks. | (10) |
