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| **Scheme of Valuation/Answer Key**(Scheme of evaluation (marks in brackets) and answers of problems/key) |
| **APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**FIFTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018 |
| **Course Code: EC365** |
| **Course Name: BIOMEDICAL ENGINEERING** |
| Max. Marks: 100 |  | Duration: 3 Hours |
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| **PART A**  |
|  |  | ***Answer any two full questions, each carries 15 marks.*** | Marks |
| 1 | a) | Need for a biomedical instrumentBlock diagramExplanation  | (2) (2) (4) |
|  | b) | Comparison any five pointsKorotkoff sound | (5) (2) |
| 2 | a) | Name of the methodPrincipleBlock diagramExplanation  | (1) (2) (2) (5) |
|  | b) | Diagram Explanation  | (2) (3) |
| 3 | a) | ECGSketch with proper markingExplanation  | (1)(3)(4) |
|  | b) | Diagram Explanation  | (3)(4) |
|  |  |  |  |
| **PART B**  |
| ***Answer any two full questions, each carries 15 marks.*** |
| 4 | a) | Name of the method DiagramExplanation  | (1)(3)(4) |
|  | b) | Diagram Explanation  | (3)(4) |
| 5 | a) | definition  | (2) |
|  | b) | Figure with proper markings  | (5) |
|  | c) | Cardiac defibrillatorFigure of DC defibrillatorExplanation  | (2)(2)(4) |
| 6 | a) | Figure Explanation  | (3)(4) |
|  | b) | Surgical diathermy  Techniques  | (2)(6) |
| **PART C**  |
| ***Answer any two full questions, each carries 20 marks.*** |
| 7 | a) | Four properties X ray machine block diagramExplanation  | (2)(4)(4) |
|  | b) | Principle Any five advantages  | (5)(5) |
| 8 | a) | Block diagramExplanation  | (3)(4) |
|  | b) | Four comparisons | ( 4) |
|  | c) | Block diagram Explanation  | (5)(4) |
| 9 | a) | Block diagramExplanation | (5)(5) |
|  | b) | Three requirements | (3) |
|  | c) | Seven precautions | (7) |
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