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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**V SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018 |
| **Course Code:EE367** |
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| **Course Name: NEW AND RENEWABLE ENERGY** |

**SYSTEMS** |

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| Max. Marks: 100 |  | Duration: 3 Hours |
| **PART A** |
|  |  | ***Answer all questions, each carries5 marks.*** | Marks |
| 1 |  | Minimum 4 points (5 marks) | ( 5) |
| 2 |  | 5definitions -1 mark each | ( 5) |
| 3 |  | Diagram (2.5 marks) + Explanation (2.5 marks) | ( 5) |
| 4 |  | Explanation (5 marks) | ( 5) |
| 5 |  | Minimum four points (5 marks) | ( 5) |
| 6 |  | Advantages (2.5 marks)+disadvantages (2.5 marks)  | ( 5) |
| 7 |  | Diagram (5 marks) | ( 5) |
| 8 |  | Explanation (5 marks) | ( 5) |
| **PART B** |
| ***Answer any twofull questions, each carries10 marks.*** |
| 9 | a) | Mechanical methods (3 marks) + Chemical methods (3 marks) | ( 6) |
|  | b) | Diagram (1 marks) + explanation (3 marks) | (4) |
| 10 | a) | Explanation (5 Marks) | (5) |
|  | b) | 5 points with brief explanation(5 marks) | (5) |
| 11 | a) | Description (6 marks) | (6) |
|  | b) | Comparison -4 points (4 marks) | (4) |
| **PART C** |
| ***Answer any twofull questions, each carries10 marks.*** |
| 12 | a) | Block diagram (2 marks) + explanation (4marks) | ( 6) |
|  | b) | Advantages 4 points (2 marks)+Disadvantage 4 points (2 marks) | (4 ) |
| 13 | a) | Each type (2 marks each) | (6) |
|  | b) | Variation in I- V chara (2 marks) + Variation in PV chara (2 marks) | (4) |
| 14 | a) | Any 2 application with explanation (2.5 marks each) | (5) |
|  | b) | Explanation (2.5 marks each) (2.5 marks each) |  |
| **PART D** |
| ***Answer any twofull questions, each carries 10 marks.*** |
| 15 | a) | Block diagram (2 marks) + explanation (4marks) | ( 6) |
|  | b) | Explanation (4 marks) | ( 4) |
| 16 | a) | 2 marks each (6 marks) | (6) |
|  | b) | Lay out (4 marks) | (4) |
| 17 | a) | Derivation (5 marks) | (5) |
|  | b) | Explanation (5 marks) | (5) |
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