T5951

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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** | | | | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | |  | | --- | | **Course Name: NEW AND RENEWABLE ENERGY** |   **SYSTEMS** | | | | | | | |
| 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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