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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: CS303** |
| **Course Name: SYSTEM SOFTWARE** |
| Max. Marks: 100 |  | Duration: 3 Hours |
| **PART A** |
|  |  | ***Answer all questions, each carries3 marks.*** | Marks |
| 1 |  | Program – 3marks | (3) |
| 2 |  | List of Registers (1)Purpose(2) | (3) |
| 3 |  | Explanation of forward reference (1)Resolving the Problem (2) | (3) |
| 4 |  | Format (2)Example(1) | (3) |
| **PART B** |
| ***Answer any two full questions, each carries9 marks.*** |
| 5 | a) | Addressing modes –(5)Target address calculation (4) | (9) |
| 6 | a) | Application software-(1.5)System Software –(1.5) | (3) |
|  | b) | Program (6) | (6) |
| 7 | a) | 3 functions (1 mark for each) | (3) |
|  | b) | Algorithm (5)Explanation(1) | (6) |
| **PART C** |
| ***Answer all questions, each carries3 marks.*** |
| 8 |  | Definition+ Example-(1.5)Advantages – (1.5) | (3) |
| 9 |  | Bootstrap Loader(1)Working of Bootstrap Loader(2) | (3) |
| 10 |  | EXTDEF & EXTREF – Explanation + Example (1.5 marks each) | (3) |
| 11 |  | Formation of bitmask (1)Usage with example(2) | (3) |
| **PART D** |
| ***Answer any two full questions, each carries9 marks.*** |
| 12 | a) | Definition of Program Block (1)Definition of Control Section(1) | (2) |
|  | b) | Description of the Block concept(3)Object code generation with example(4) | (7) |
| 13 | a) | Description(1.5)Example(1.5) | (3) |
|  | b) | Algorithm(5)Explanation(1) | (6) |
| 14 | a) | Explanation -3 marks | (3) |
|  | b) | Working of any one type of one pass assembler(6) | (6) |
| **PART E** |
| ***Answer any four full questions, each carries10 marks.*** |
| 15 | a) | Keyword macro parameter(1.5)Positional macro parameter(1.5) | (3) |
|  | b) | Algorithm(6)Explanation (1) | (7) |
| 16 | a) | Yes.(1) Generation of unique labels(5) | (6) |
|  | b) | Explanation (3)Example(1) | (4) |
| 17 | a) | Overview of conditional macro expansion(2)Explanation of any two types of conditional macro statements with examples(3 mark for each)Implementation details – 2 marks | (10) |
| 18 | a) | Diagram (5 )Explanation(3) | (8) |
|  | b) | Four functions(0.5 marks for each) | (2) |
| 19 | a) | 6 points& its explanation( 1 mark for each) | (6) |
|  | b) | 4 points(1 mark for each) | (4) |
| 20 | a) | Definition(2)Design issues(3) | (5) |
|  | b) | Character Device Driver(2.5)Block Device Driver(2.5) | (5) |
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