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|  | **Pimpri Chinchwad Education Trust’s****Pimpri Chinchwad College of Engineering & Research****Ravet, Pune** |
| **Academic Year:** 2019 - 20 | ***SPOS Question Bank Unit Test*** | **Term:**  II |

**Date : 14/1/2020**

**Department: Computer Engineering**

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|  **Year and Div.: TE** |  |
|  **Subject: System Programming & Operating System(310251 )** |  |

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| Q.1 | Explain different components of System Software | C311.1 |
| Q.2 | Illustrate PASS I assembler with its data structures in detail. | C311.1 |
| Q.3 | Compare between Compiler and Interpreter  | C311.3 |
| Q.4 | Justify use of Macro Name Table(MNT)in Macro processor? Explain different fields of MNT with suitable example | C311.2 |
| Q.5 | Distinguish between single pass and nested macro processor | C311.2 |
| Q.6 | Categorize different Loader scheme. | C311.3 |
| Q.7 | Design flowchart of pass-I Linking loader. | C311.3 |
| Q.8 | Assume suitable example to explain Call back function in detail. | C311.3 |
| Q.9 | What is Token, pattern and Lexeme? Explain lexical Error | C311.3 |
| Q.10 | Elaborate transition diagram for recognition of Tokens. | C311.3 |
| Q.11 | Design program to find no of word count,line count ,space count in a given sentence | C311.3 |
| Q.12 | Explain the LEX and YACC Features. | C311.3 |
| Q.13 | Explain algorithm of pass I of two pass assembler | C311.1 |
| Q.14 | Illustrate in brief imperative statements, declaration statements and assembler directives with examples for assembly language programming. | C311.1 |
| Q.15 | Classify different types of errors that are handled by PASS I & Pass II of assembler | C311.1 |
| Q.16 | Compare between PASS I and PASS II assembler | C311.1 |
| Q.17 | List all data structures used in the design of macro processor | C311.2 |
| Q.18 | Explain macro expansion with relevant example | C311.2 |
| Q.19 | Explain PASS I macro in detail with following example MACRO  CLEARMEM &X,&N,&REG=AREG LCL &M &M SET 0  MOVER &REG, =’0’ .MORE MOVEM &REG,&X+&M &M SET &M +1  AIF (&M NE N) .MORE  MEND | C311.2 |
| Q.20 | Apply conditional macro expansion with suitable example | C311.2 |
| Q.21 | To find the subset of any java program use lexical analyzer and explain its working.  | C311.3 |
| Q.22 | What are YACC specifications and features? | C311.3 |
| Q.23 | Consider the working of toy compiler and explain two phases of compiler. | C311.3 |
| Q.24 | Distinguish between compiler and interpreter | C311.3 |

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