B.Sc. Part-I Semester-I Examination COMPUTER SCIENCE/COMPUTER APPLICATION/INFORMATION

| TECHNOLOGY-I (NEW) | | | | | | |
|---|---|--|--|--|--|--|
| (Fundamentals of Information Technology & C Programming |) | | | | | |

| Time : T | hree | Hours] | nnology & | Maximum Marks: | 80 |
|----------|-------|---|------------|-------------------------------|-------|
| N.B.: | (1) | Question No. 1 carries 8 marks & all of | other ques | tions carry equal (12) marks. | |
| | (2) | Assume suitable data wherever necessa | ıry. | | |
| 1. (A) | Fill | in the blanks: | | | |
| | (i) | DMP stands for | | | |
| | (ii) | URL means | | | |
| | (iii) | 1KB equals to bytes. | | | |
| | (iv) | The header file is included in the pro- | ogram for | standard I/10 statements. | 2 |
| (B) | Cho | ose the correct alternative: | | | |
| | (i) | CPU is a combination of: | | - | |
| | | (a) Input Unit and Storage | | | |
| | | (b) Control Unit and O/P Unit | | | |
| | | (c) ALU and Input Unit | | | |
| | | (d) ALU, Control Unit and memory | Unit, | | |
| | (ii) | Who invented the high level language | ge 'C' ? | | |
| | | (a) Niklaus Writh | (b) | Dennis M. Ritchie | |
| | | (c) Seymor Strostrup | (d) | John Hudson | |
| | (iii) | Which of the following is the correct | t usage o | f conditional operator in C? | |
| | | (a) $a > b$? $c = 30 : c = 40$; | | | |
| | | (b) $a > b ? c = 30$; | | | |
| | | (c) $max = a > b ? a > c ? a : c : b$ | o > c? b | : c | |
| | | (d) return (a>b) ? (a : b); | | | |
| | (iv) | Which of the following is an arithm | etic opera | itor ? | |
| | | (a) && | (b) | 1 | |
| | | (c) > | (d) | - ×- | 2 |
| (C) | Ans | wer the following in ONE sentence: | | | |
| | (i) | What is RAM ? | | | |
| | (ii) | What is Keyword? | | | |
| | (iii) | What is Interpreter? | | | |
| | (iv) | What is an Algorithm ? | | | 4 |
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| 2. | (A) | Explain the generations of computers. | 6 |
|-----|-------------|---|-----------|
| | (B) | What are impact and non-impact printers? Explain. | 6 |
| | | OR | |
| 3. | (A) | Explain the terms: | |
| | | (i) Mouse | |
| | | (ii) Scanner. | 6 |
| | (B) | Describe the block diagram of computer with its functional units. | 6 |
| 4. | (A) | What is an Operating System? State the types of operating system. Explain the multitask operating system. | ing 6 |
| | (B) | What is Windows Explorer ? Explain. | 6 |
| | | OR | |
| 5. | (Δ) | Explain the file structure of O.S. with different file types. | 6 |
| | (B) | Explain the Time Sharing Operating System. | 6 |
| 6. | (A) | What is Computer Networking? Why it is required? Explain. | 6 |
| | (B) | What is Internet? How it is useful? Explain the types of Internet connections. | 6 |
| | | OR | |
| 7. | (A) | What is Protocol? Explain the FTP and HTTP Internet protocols. | 6 |
| | (B) | What is Web Browser? Explain any one web browser. | 6 |
| 8. | (Λ) | What are flow-charts? Explain with the various symbols used to draw flow-char | t. |
| | | | 6 |
| | (B) | Explain the structure of C-Program with an example. | 6 |
| | | OR . | |
| 9. | (A) | What are Programming Languages? State and explain the features of C-Programm language. | ning 6 |
| | (B) | What are Translators? Explain the terms Compiler, Interpreter and Assembler. | 6 |
| 10. | (A) | What are data types in C? Explain its types. | 6 |
| | (B) | Explain the logical and bitwise operators used in C with example. | 6 |
| | | OR | |
| 11. | (A) | What are unary operators in C? Explain increments and decrement operators vexample. | with 6 |
| | (B) | Explain the conditional operator in C with suitable example. | 6 |
| 12. | (Λ) | Explain the formatted I/O statements printf () and scanf () with an example. | 6 |
| | (B) | Write a program in 'C' to swap the two given values. | 6 |
| | | OR | |
| 13. | (A) | Explain the switch-case statement in C with suitable example. | 6 |
| | (B) | Write a program in C to find the sum of any ten numbers and its average. | 6 |
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