AW-1722

B.Sc. (Part-II) Semester-IV Examination COMPUTER SCIENCE/COMPUTER APPLICATION/INFORMATION TECHNOLOGY (Old)

| (Advanced C++ and web Designing) | | | | | |
|---|---|---|----------------------------|------------------------------|-------|
| Time: | Three | Hours] | | [Maximum Marks: | 80 |
| N.B.:—(1) ALL questions are compulsory. | | | | | |
| | (2) | (2) Question No. 1 carries 8 marks and all other questions carry 12 marks each. | | | |
| | (3) Assume suitable data wherever necessary. | | | | |
| 1. (A | x) Fill in the blanks: | | | | |
| | (i) provides the concept of reusability. | | | | |
| | (ii) An array name followed by two subscripts is called | | | | |
| | (iii) DTD stands for | | | | |
| | (iv) | (iv) Namespace is declared with prefix is called as namespace. | | | |
| (B | Cho | Choose correct alternative : | | | |
| | (i) | (i) A pointer a variable that holds of another variable. | | | |
| | | (a) Value | (b) | Memory address | |
| | | (c) Data type | (d) | None of these | |
| | (ii) | Template provides: | | | |
| | | (a) Reusability of cod | e (b) | Eliminates redundant coding | |
| | | (c) Support generic pr | rogramming (d) | All are correct | |
| | (iii) | If element does not con | tain any content then su | ch element is called a/an | |
| | | (a) Root element | (b) | Empty element | |
| | | (c) Nested element | (d) | Sibling element | |
| | (iv) | (iv) defines a class of xml documents. | | | |
| | | (a) XML Schema | (b) | Namespace | |
| | | (c) DTD | (d) | CSS | 2 |
| (C |) Ans | wer in one sentence each | ch: | | |
| | (i) | What is derived class | ? | | |
| | (ii) | What is pointer? | | | |
| | (iii) | What is element? | | | |
| | (iv) | What is CSS ? | | | 4 |
| 2. (A |) Wh | t is array ? Explain de | claration and initializati | on of one dimensional array. | 6 |
| (B | 3) Wh | t is operator overloadir | ng ? Explain with suital | ole example. | 6 |
| | | 1 | OR | | |
| 3. (A | () Exp | Explain pointer to object with suitable example. | | | 6 |
| | | Write a program in C++ to overload assignment (=) operator. | | | 6 |
| d) | , WIII | c a program in con to | C. STICKE WOOLBINITETE (| N I | |
| Imc : | 5202 | | , | (Con | ıtd) |
| YBC—1 | 5293 | | 1 | (Con | |



www.FirstRanker.com www.FirstRanker.com 6 (A) Explain multiple inheritance with suitable example. 4. 6 (B) What is function template? Explain with suitable example. OR 6 (A) What is class template? Explain with example. 5. 6 (B) Explain hybrid inheritance with suitable example. (A) Explain pointers to derived class with example. 6 6. (B) Explain opening and closing of file with syntax and example. 6 OR (A) Explain hierarchy of file stream classes. 6 (B) What is virtual function? Explain with suitable example. 6 (A) Explain the basic structure of XML document. 6 (B) Explain the term XML element with example. State the naming rules for XML element. 6 OR 9. (A) Explain document prolog and document instance. 6 (B) State and explain the features of XML. 6 10. (A) What is meant by DTD? Describe the internal DTD with example. 6 (B) What is entity? Explain with suitable example. 6 OR 11. (A) Explain element content model with suitable example. 6 (B) What is the need of DTD? Describe the external DTD with suitable example. 6 12. (A) Explain various features of XML Schema. 6 (B) Explain default and prefix declaration of namespace. 6 OR

13. (A) Compare XML Schema with DTD by giving suitable example.

(B) What are the various XML Schema data types?

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