

BLISc Sem.-1 Examination
404

Fundamentals of IT - Theory
February-2025

Time : 1-15 Hours]

[Max. Marks : 35

પ્ર. 1 વ્યક્તિગત કોમ્પ્યુટર એટલે શું? વ્યક્તિગત કોમ્પ્યુટર મશીનમાં ઉપયોગમાં લેવાતા વિવિધ ડિવાઈસીસ 15
જણાવી, કોઈપણ એક ડિવાઈસીસ વિશે વિસ્તૃતમાં ઉદાહરણો આપી સમજાવો.

અથવા

1. માહિતી અને ટેકનોલોજી એટલે શું ? તેના ઘટકો અને વિશેષતાઓ જણાવો.
2. બાઈનરી, ડેસીમલ, ઓક્ટલ અને હેક્સાડેસિમલ નંબર સિસ્ટમની વિભાવના સમજાવી અને આપેલ સંખ્યાનો ઉકેલો શોધો: (i) $(AC)_{16} = (?)_{10}$
3. કમ્પ્યુટર વાયરસ શું છે? વાયરસના પ્રકારો સમજાવો.

પ્ર. 2 નીચેના પૈકી કોઈપણ બે વિશે ટૂંકનોંધ લખો. 10

- 1) ગ્રંથાલય પ્રવૃત્તિઓમાં ઉપયોગમાં લેવાતા કોઈપણ સાત એપ્લિકેશન સોફ્ટવેર તેમના ઉપયોગ સાથે સંક્ષિપ્તમાં વર્ણવો.
- 2) ડેટાબેઝ એટલે શું? ડેટાબેઝ સિસ્ટમના ભાગો સમજાવો.
- 3) એનાલોગ અને ડીજીટલ કોમ્પ્યુટરનો તફાવત સમજાવો.

પ્ર. 3 હેતુલક્ષી પ્રશ્નોના વિકલ્પોમાંથી જવાબ આપો English Version પ્રમાણે 10

English Version

Q. 1 What is a Personal Computer? State the various devices used in a Personal Computer, 15
Explain in detail any one device with examples.

OR

1. What is IT? Mention the components and Characteristics of IT.
2. Explain the concept of binary, decimal, octal and hexadecimal number systems and find out the solutions of the following numbers: (i) $(AC)_{16} = (?)_{10}$
3. What is a Computer Virus? Explain the types of viruses.

Q. 2 Write Short notes on any Two of the following. 10

1. Briefly describe any seven application software used in library activities with their usage.
2. What is Database? Explain the Components of Database System.
3. Explain the difference between analog and digital computer.

Q. 3 Select and write correct answer from following multiple choice questions 10

1. The statement "the study, design, development, implementation, support or management of computer-based information systems, particularly software applications and computer Hardware" refers to

- | | |
|---|--|
| (a) Information and Data Technology (IDT) | (b) Information Technology (IT) |
| (c) Artificial Intelligence (AI) | (d) Information and Collaborative Technology (ICT) |

P.T.O.

2. Which server facilitates the sending and receiving of emails?
 - (a) File server
 - (b) Mail server
 - (c) Database server
 - (d) Domain Controller
3. 'SGML' stands for
 - (a) Super Generalized Markup Language
 - (b) Standard Generalized Markup Language
 - (c) Stanford General Medical Literature
 - (d) Super Generalized Machine Language
4. Which is a Digital Repository Software
 - (a) Greenstone
 - (b) Linux
 - (c) MS Word
 - (d) CDS/ISIS
5. ASCII stands for
 - (a) American Stable Code for International Interchange
 - (b) American Standard Case for Institutional Interchange
 - (c) American Standard Code for Information Interchange
 - (d) American Standard Code for Interchange Information
6. Which of the following are the advantages of RFID technology in libraries?
 - (a) Tags can be read inside a case and Hundred of tags can be read at a time.
 - (b) Hundred of tags can be read at a time and Cheaper than Barcode
 - (c) Cheaper than Barcode and More security and Privacy
 - (d) Tags can be read inside a case and More security and Privacy
7. Radio Frequency Identifier are used in Libraries for
 - (a) Reference Section
 - (b) Thesis Section
 - (c) Periodical Section
 - (d) Circulation & Security
8. What is the first in India to install a computer system in 1955?
 - (a) University of Mumbai, Mumbai.
 - (b) University of Science and Technology, Cochin.
 - (c) Punjab University, Punjab.
 - (d) The Indian Statistical Institute, Calcutta
9. Which are the most popular commercial library automation software
 - (a) CDS/ISIS, D-Space, and Green Stone
 - (b) KOHA , New GENLIB and Green Stone
 - (c) LIBSYS, Alice; and SOUL
 - (d) E-Print , Sanjay and E-Granthalaya
10. SOUL 3.0 software is Supports multi-platform for bibliographic database such as:
 - (a) DOS, DBMS, RDBMS
 - (b) My SQL, MS-SQL , RDBMS
 - (c) UNIX, XENIX, Oracle
 - (d) CCF, MARC , MICROLIF