COMPUTER STUDIES 2017

Time: 2 1/2 Hours

Max. Marks: 60

SECTION B (SHORT-ANSWER QUESTIONS)(36)

NOTE: Attempt 9 questions from this Section.

- 2. What do you mean by an operating system?
- Write differences between impact printer and nonimpact printer.
- Define ports and describe it types.
- Compare & contrast: Analog Computer and Digital Computer.
- 6. Describe any four functions of Control Panel.
- 7. Map the following equation on a Karnaugh Map. $\overline{ABC} + \overline{ABC} + \overline{ABC} + \overline{ABC}$
- 8. What is number system? Write names of its types.
- 9. Classify the computer according to the purpose.
- Convert the following:
 - (i) $(110)_2 = (?)_8$ (ii) $(628)_{10} = (?)_2$
 - (iii) $(2EE)_{16} = (?)_2$ (iv) $(132)_8 = (?)_{10}$
- 11. Solve the following Binary numbers:
 - (i) 1001 + 1010 (ii) 1001 x 101 (iii) 1101 - 1011 (iv) 1001 ÷ 11
- 12. State Demorgan's theorems and prove them.
 - (i) $\overline{x.y} = \overline{x} + \overline{y}$ (ii) $\overline{x+y} = \overline{x}.\overline{y}$
- 13. Explain the 4th generation of computer.
- What are plotters? Write the names of different types of plotters.

SECTION C (DETAILED-ANSWER QUESTIONS)(24)

NOTE: Attempt 2 questions from this Section.

- 15.(a) Define C.P.U. Write about ALU and CU.
- (b) Explain Keyboard and write about its divisions.
- 16.(a) Define computer Bus and describe its types.
- (b) What do you mean by computer programming language? Discuss its types.
- 17.(a) What do you mean by Data? Describe its types.
- (b) Why do we need secondary storage device? Write about Hard disk.

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- 1. Understanding the eBook Form Computer Studies Past Papers
 - The Rise of Digital Reading Form Computer Studies Past Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Form Computer Studies Past Papers
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Form Computer Studies Past Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Form Computer Studies Past Papers
 - Personalized Recommendations

- Form Computer Studies Past Papers User Reviews and Ratings
- Form Computer Studies Past Papers and Bestseller Lists
- 5. Accessing Form Computer Studies Past Papers Free and Paid eBooks
 - Form Computer Studies Past Papers Public Domain eBooks
 - Form Computer Studies Past Papers eBook Subscription Services
 - Form Computer Studies Past Papers Budget-Friendly Options
- 6. Navigating Form Computer Studies Past Papers eBook Formats
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 - Form Computer Studies Past Papers Compatibility with Devices
 - Form Computer Studies Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Form Computer Studies Past Papers
 - Highlighting and Note-Taking Form Computer Studies Past Papers
 - Interactive Elements Form Computer Studies Past Papers
- 8. Staying Engaged with Form Computer Studies Past Papers
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Form Computer Studies Past Papers
- 9. Balancing eBooks and Physical Books Form Computer Studies Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Form Computer Studies Past Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Form Computer Studies Past Papers
 - Setting Reading Goals Form Computer Studies Past Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Form Computer Studies Past Papers
 - Fact-Checking eBook Content of Form Computer Studies Past Papers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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