

FUNDAMENTALS OF COMPUTER, IBMPC & Q BASIC

XEV (H-1)- BCA (1) YEAR

2013

Time : 3 hours

Full Marks : 75

Candidates are required to give their answers in their

Own words as far as practicable.

The questions are of equal value.

Answer no. 1 which is compulsory.

1. Choose the correct answer of the following :

- (a) **The first electronic computer that has used the stored program concept introduced by John Von Neumann :**
- (i) **UNIVAC**
 - (ii) **EDSAC**
 - (iii) **ENIAC**
 - (iv) **EDVAC**
- (b) **The unit that performs the arithmetic and logical operations on the stored numbers is known as:**
- (i) **Arithmetic & Logic Unit**
 - (ii) **Control Unit**
 - (iii) **Memory Unit**
 - (iv) **Both (i) & (ii)**
- (c) **Roman number system is a :**
- (i) **Positional number system**
 - (ii) **Non-Positional number system**
 - (iii) **Both (i) & (ii)**
 - (iv) **None**

- (d) The binary equivalent of $(231)_{10}$ is :
- (i) 11100111 (ii) 10111001
(iii) 01110011 (iv) None
- (e) Conversion of decimal number 67_{10} to its octal number equivalent is :
- (i) 100_8 (ii) 103_8
(iii) 109_8 (iv) 99_8
- (f) ALU works on the instructions and data held in the :
- (i) Notebook (ii) Registers
(iii) Copy pad (iv) I/O device
- (g) Linkage between the CPU and user is provided by:
- (i) Storage (ii) Control unit
(iii) Peripheral device (iv) Software
- (h) Which one is the impact printer :
- (i) Laser printer (ii) Inkjet printer
(iii) Thermal Printer (iv) Daisy wheel Printers
- (i) The fastest access memory is :
- (i) Cache memory (ii) Main memory
(iii) register (iv) None
- (j) Which of the following is an application software :
- (i) DBMS (ii) Loader
(iii) Linker (iv) Compiler

2. **What is computer? How does it works? Explain about the different generation of computer?**
3. **What is the role of Input/Output unit? Discuss about the different types of Printers.**
4. **What is the purpose of binary coding system? Briefly explain the term BCD,ASCII and EBCDIC.**
5.
 - (a) **What is the difference between centralized and distributed data processing?**
 - (b) **What is software? How is it different from a program?**
6.
 - (a) **What is a computer program? List out the characteristics of a good program. How a flow chart is related with a program.**
 - (b) **Write down the algorithm for calculating the area of circle.**
7. **Discuss the evolution of microprocessor ? Draw the architecture of INTEL 8086 microprocessor.**
8. **Differentiate between the following (any three) :**
 - (a) **Micro, mini and main frame computers**
 - (b) **Low level and high level language**
 - © **Real time and time sharing processing.**
 - (d) **SASD and DASD**
 - (e) **Online and Offline data entry**
9.
 - (a) **Explain the booting process of an IBM-PC.**
 - (b) **Explain the difference between batch file, configuration files and system file.**

10. Write notes on any three of the following :

- (a) Central processing**
 - (b) Electronic mail**
 - (c) Rom and its types**
 - (d) Timer display controllers**
 - (e) Register and its type**
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