

Term End Examination : June – 2018
Diploma in Computer Applications
COMPUTER FUNDAMENTALS

DCA-01

Time: 3 hours

Full Marks: 100

Read the instructions carefully before attempting questions from each group.

GROUP – A

Q.No. 1. Answer all questions selecting the right options. Each carries 1 Mark [1 X 10 = 10]

i) The basic operations performed by a computer are

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|-------------------------|-------------------------|
| A) Arithmetic operation | C) Storage and relative |
| B) Logical operation | D) All the above |

ii) The two major types of computer chips are

- | | |
|-------------------------|------------------------|
| A) External memory chip | C) Microprocessor chip |
| B) Primary memory chip | D) Both b and c |

iii) Microprocessors as switching devices are for which generation computers

- | | |
|----------------------|----------------------|
| A) First Generation | C) Third Generation |
| B) Second Generation | D) Fourth Generation |

iv) The brain of any computer system is

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|-----------|-----------------|
| A) ALU | C) CPU |
| B) Memory | D) Control unit |

v) Storage capacity of magnetic disk depends on

- | | |
|-------------------------------|------------------------------|
| A) tracks per inch of surface | C) disk pack in disk surface |
| B) bits per inch of tracks | D) All of above |

vi) The two kinds of main memory are:

- | | |
|--------------------------|-----------------|
| A) Primary and secondary | C) ROM and RAM |
| B) Random and sequential | D) All of above |

vii) Integrated Circuits (Ics) are related to which generation of computers?

- | | |
|----------------------|----------------------|
| A) First generation | C) Third generation |
| B) Second generation | D) Fourth generation |

viii) CD-ROM is a

- | | |
|-------------------------|--------------------|
| A) Semiconductor memory | C) Magnetic memory |
| B) Memory register | D) None of above |

ix) The ALU of a computer responds to the commands coming from

- | | |
|--------------------|--------------------|
| A) Primary memory | C) External memory |
| B) Control section | D) Cache memory |

x) The main electronic component used in first generation computers was

- | | |
|----------------------------|------------------------|
| A) Transistors | C) Integrated Circuits |
| B) Vacuum Tubes and Valves | D) None of above |

GROUP – B

Q.No. 2. Answer any 4 questions each within 50 words. Each carries 5 marks [5 X 4 = 20]

- a) Write the role of control unit.
- b) Write about external Storage Devices.
- c) Discuss about Arithmetic Logical Unit (ALU).
- d) Discuss the binary number system with an example.
- e) What are the different users in Linux?
- f) Discuss about Random Access Memory (RAM).

GROUP – C

Q.No.3. Answer any 4 questions each within 200 words. Each carries 10 Marks [10 X 4 = 40]

- a) What are the operations that are performed on a file and folder?
- b) What is a port? Discuss various types of ports used in a computer.
- c) Explain about the four major functional devices of computer?
- d) Define software. Explain the different types of software.
- e) Discuss about the different components of control panel.
- f) Explain the components of motherboard.

GROUP – D

Q.No.4. Answer any 2 questions each within 250 words. Each carries 15 Marks. [15 X 2 = 30]

- a) Discuss about different Input and Output devices.
- b) What is an Operating System? Explain the types of operating systems.
- c) Give a detail view of generations of computer.
- d) Explain different types of Secondary Storage Devices in a computer system.
