

B.C.A.- I (C.B.C.S. Pattern) Sem-I
UBCAT103 - Information & Communication Technology Paper-III

P. Pages : 2

Time : Three Hours



GUG/S/19/11745

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answer related to question.

1. Either:

- a) List and explain characteristics of computer in detail. **8**
- b) Define primary memory. Differentiate RAM and ROM. **8**

OR

- c) What is generation of computer? Explain first and second generation of computer in detail. **8**
- d) Convert the following **8**
 - i) $(1011101)_2 = (?)_8$
 - ii) $(3741513)_8 = (?)_{16}$
 - iii) $(3B8)_{16} = (?)_2$
 - iv) $(13C2.31)_{16} = (?)_{10}$

2. Either:

- a) Define Input device. Explain keyboard in detail. **8**
- b) Explain in detail: **8**
 - i) VDU
 - ii) Optical Disk

OR

- c) Write a short note on: **8**
 - i) MICR
 - ii) OMR
- d) Describe the following input devices in detail. **8**
 - i) Touch Screen
 - ii) Track ball

3. Either:

- a) Define operating system. Explain features of windows in detail. **8**
- b) Write a short note on: **8**
 - i) Device manager
 - ii) Recycle Bin

OR

- c) Explain the following operating systems in brief. 8
i) Single user multiple Task
ii) Multi-user multiple Task
- d) Describe the following components of windows accessories. 8
i) Disk fragmentation
ii) Disk cleanup

4. Either:

- a) Define Computer Network. Describe the need of Network in detail. 8
- b) Explain the following: 8
i) Freeware ii) Shareware

OR

- c) What is Internet? Explain various services provided by Internet. 8
- d) Explain the concept of Network Topology Explain star and Ring topology. 8

5. Solve all the questions.

- a) What is Number system. Explain octal Number system in detail. 4
- b) Explain Dot matrix printer in detail. 4
- c) Write a short note on data source. 4
- d) Explain any two search engines in detail. 4
