(Pages : 3) **F – 2103**

Reg. No. : ........................

Name : ...........................

**First Semester B.Sc./B.C.A. Degree Examination, November 2018**
**Career Related FDP Under CBCSS**
**Group 2(b) : Computer Science/Computer Applications**
**Group 2(a) : Physics with Computer Applications**
**Foundation/Vocational Course**
**CS 1121/CP 1121/PC 1171**
**COMPUTER FUNDAMENTALS AND ORGANIZATION**
**(2018 Admission)**

Time : 3 Hours                                                        Max. Marks : 80

SECTION – A

Very short answer type. **One word** to maximum **one sentence**, answer **all**
questions.                                                        (10×1=10 Marks)

1.  BIOS is the short name of _____

2.  Define input device.

3.  Define SRAM.

4.  What is an optical disk ?

5.  Define Miss in Cache.

6.  What is pipelining ?

7.  Expand LEA instruction.

8.  Define virtual memory.

9.  What is a strobe ?

10. Define parallel data transfer.

## SECTION – B

Short answer. **Not** to exceed **one** paragraph, answer **any eight** questions.
**Each** question carries **two** marks. **(8×2=16 Marks)**

11. Write a note on Ribbon Cable.

12. What is the role of an SMPS ?

13. Write about CMOS.

14. Explain about Magnetic Tape.

15. Write about USB.

16. Write a note on Accumulator Register.

17. Write a note on instruction set.

18. Explain about SHL instruction.

19. Write a note on Micro Instruction.

20. Explain about serial communication.

21. Write about daisy chain.

22. Write a note on bus request in DMA.

## SECTION – C

Short essay. **Not** to exceed **120** words, answer **any six** questions. **Each** question carries **four** marks. **(6×4=24 Marks)**

23. Write a note on expansion cards.

24. Draw Von Neumann architecture.

25. Differentiate SRAM and DRAM.

26. Write a note on type of optical disks.

27. Explain PC and DR registers.

28. Write a note on advantages of RISC architecture.

29. Differentiate CD-R and CD-W.

30. Write about IOP.

31. Write about synchronous data transfer.

## SECTION – D

Long essay. Answer **any two** questions. **Each** question carries **15** marks.

**(2×15=30 Marks)**

32. Explain about components inside a computer in detail.

33. Write a detailed note on Memory Hierarchy.

34. Differentiate Interrupt and Instruction Cycle.

35. Write about Modes of Data Transfer in detail.