Part-B (Unit-I)

10 each

2.) Explain Fourth generation of computers in detail. Draw the block diagram of computer and explain the working of its each unit.

Part-C (Unit-II)

- 4. Discuss the organization of main memory and its types in detail.
- 5. Explain the working of optical storage devices and solid state storage devices in detail.

Part-D (Unit-III)

10 each

- 6. List out any five input devices and discuss the working of any three of them.
- 7. Discuss different types of printing devices and explain their working.

Part-E (Unit-IV)

10 each

- 8. Discuss Compiler, Assembler and Interpreter in detail." Also, explain why they are required?
- 9. Write short notes on the following:
 - High level language
 - (ii) Assembly language
 - (iii) Machine language
 - (iv) Spreadsheet software

21/2×4=10

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Total No. of Questions: 9] (2021)

[Total No. of Printed Pages: 4

BCA (CBCS) RUSA Ist Semester Examination

4039

COMPUTER FUNDAMENTALS BCA-0103

Time: 3 Hours]

[Maximum Marks: 70

Note: - Attempt five questions in all, selecting one question each from Unit-I to Unit-IV. Part-A (Q. No. 1) is compulsory.

Part-A

(Compulsory Question)

- 1. (A) Attempt all parts. Answer the following MCQ's by selecting most appropriate option:
 - One Nibble is equal to how many bits?
 - (a) 2
 - (b) 4
 - (c) 8
 - (d) .1

C-586

(1)

| · (a), 1 | Registers | | , , , , | system of the computer. |
|----------------------------|--|---------------------------------------|-------------------|---|
| (c) | Program Counters Controllers | , | (vii) | allows single processor to run several concurrent threads. |
| (iii) A no audio (a) | Internal Chips on-erasable disk that stores digitized o information is: CD | · · · · · · · · · · · · · · · · · · · | State | MICR stands for |
| (c) | CD-ROM DVD-R DVD-RW functions of execution and sequencing | | (x) | microinstructions which are strings of 0's and 1's. (True/False) ALU is the place where the actual |
| (a) (b) | Derformed by using : Input Signals Output Signals Control Signals | (| | executions of instructions take place during the processing operation. (True/False) 1×10=10 ewer the following in 25 to 50 words: |
| (d) | CPU iprogramming is mainly accomplished | | (i) (ii) | Differentiate between Micro and Mini Computer. What is Cache Memory ? |
| (a), (b) | Operating System Software Hardware | | | What is File Allocation Table (FAT) ? |
| (-) | Program | C- | (v) 586 | Write a short note on 4GL. 4x5=2 |

(ii) Components that provide internal storage

to CPU are:

Fill in the blank spaces:

(vi) unit act as the central nervous

| Roll No. | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Total No. of Questions: 9] [Total No. of Printed Pages: 4 (1109) | | | | | | | | |
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| COMPUTER FUNDAMENTALS | | | | | | | | |
| BCA-0103 | | | | | | | | |
| | | | | | | | | |
| Time: 3 Hours] [Maximum Marks: 70 | | | | | | | | |
| Note: Attempt five question in all, selecting one question each from Units-I to Unit-IV. Part-A (Q. No. 1) is | | | | | | | | |
| compulsory. | | | | | | | | |
| Part-A | | | | | | | | |
| (Compulsory Question) | | | | | | | | |
| 1. (A) Select the correct option for MCQ's: $10 \times 1 = 10$ | | | | | | | | |
| (i) Microprocessors as switching devices are | | | | | | | | |
| for which generation computers: | | | | | | | | |
| (a) First Generation | | | | | | | | |
| (b) Second Generation | | | | | | | | |
| (c) Third Generation | | | | | | | | |
| (d) Fourth Generation | | | | | | | | |
| C-737 (1) Turn Ove | | | | | | | | |

(1)

Turn Over

| quality graphics reproduct | | nash memory. |
|--|------------|--|
| (a) Inkjet printer | | (ix) Image capturing devices are input devices. (True/False) |
| (b) Laserjet printer (c) Plotter (d) Dot matrix printer (iii) The following are all application softwares, | (11) | (x) Primary memory is Volatile. (True/False) Answer the following in 25 to 50 words: (i) Write a short note on evolution of computer. |
| except: (a) MS Word (b) MS Excel (c) MS Windows (d) MS Access (iv) 1 Gigabyte (GB) is equal to: | | (ii) What are sequential access storage devices? (iii) Discuss the various data scanning devices. (iv) Differentiate between High Level Language and Machine Level Language. (v) What is an Application Software? Name any three. |
| (a) 1024 KB | | Part-B (Unit-I) |
| (b) 1024 byte (c) 1024 MB (d) 1024 TB | 2. (a) | Draw the block diagram of computer and explain the function of its each Unit. Give two limitations of computers. 8,2 |
| (v) ASCII stands for | *** | Or |
| (vi) EBCDIC stands for | (a) | What do you mean by Instruction Set ? Discuss. |
| vii) The information stored in is erased | (b) | Discuss types of processors used in Computer |
| when computer is turned off. | | System. 5, |
| (2) | C-73 | 37 (3) Turn Ove |
| the state of the s | church " p | |

(ii) Which of the following produces the best

quality graphics reproduction ?

(viii) The speed imbalance between the main memory and processor is avoided by using

flash memory.

(True/False)

| | Part-C (Unit-II) |
|----|--|
| 4. | (a) What is Primary Memory? Why it is needed? |
| | (b) What do you mean by specification of a PC? 5,5 |
| | Or |
| 5 | (a) Write a short note on Solid State Storage |
| ٠, | Devices. |
| | (b) Discuss different types of optical disks. 4,6 |
| | Part-D (Unit-III) |
| , | and draw devices? Explain |
| 0. | their working. |
| | - 100 the between Laseriet and Inkiet printers. 6,4 |
| | (b) Differentiate between Laserjer and myself |
| | (a) What is difference between a mouse and track |
| 7. | • • |
| | ball? |
| | (b) Explain OCR, OMR and MICK. |
| | Part-E (Unit-IV) |
| 8. | (a) What is an Operating System? What are its |
| ٥. | functions? |
| | between compiler and interpreter. 0,4 |
| | (b) Differentiate between company |
| | The state of the s |
| 9. | (a) What is Disk Operating System? What are its |
| | drawbacks ? |
| | (b) Differentiate between file and directory structure. |
| | Discuss naming rules for directory. 5,3 |
| | La Company Com |

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Total No. of Questions : 9]

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BCA (CBCS) RUSA Ist Semester Examination

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COMPUTER FUNDAMENTALS

BCA-0103

Time: 3 Hours]

[Maximum Marks: 70

Note: Attempt five questions in all, selecting one question each from Unit-I to Unit-IV. Part-A (Q. No. 1) is compulsory.

Part-A

(Compulsory Question)

- (A) Attempt all parts. Answer the following MCQ's by selecting most appropriate option :
 - (i) A process is a
 - (a) Single thread of execution
 - (b) Program in the execution
 - (c) Program in the memory
 - (d) Task

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(1)

Turn Over

| -573 | | (vi | (vi | | 1 | (vi) | Fil | | | | | 3 | | | | (iv) | | | (iii) | | | (11) |
|-------|-----------------|---------------------------------------|----------------------|---------------------------------|---|------------------------------|-----------------------------|------------------|--------------------|---------------------|----------------------|-----------------------------------|---------------|------------------|-----|----------------------------------|----------|----------|-----------------------------|--------------|--------------|---|
| (2) | access for CPU. | ii) is the far | (vii) DDV stands for | logical and control activities. | that manages the co |) Each personal com | Fill in the blank spaces :- | (d) Cache Memory | (c) Primary Memory | (b) Tertiary Memory | (a) Secondary Memory | | (c) Gigahertz | (a) Nanoseconds | | | (c) .ppt | (a) .txt | The extension of Notepad is | (c) A block | (a). A bit | |
| | | (viii) is the fastest means of memory | | activities. | that manages the computer's arithmetical, | Each personal computer has a | ** | y | γ | Ŋ | mory | is also called auxiliary storage. | (d) Megabytes | (b) Kilo-seconds | | Speed of computer is measured in | (d) .bmp | (b) xls | otepad is | (d) A nibble | (b) A hyte - | what is smallest unit of the impiliation: |
| | , | | 0 | | | | 4 | b | Ġ. | ä. | | | 5 - 5 | | | Jalya Jalya | | | | | en. | |
| C-573 | the w | O Discu | the ca | 2. Expla | | | _ | | | | | | | _ | (a) | Đ. | | | | | _ | 1015 |

State whether the statement is True or False :

- ix) Secondary storage virtually has an is very low. unlimited capacity because the cost per bit (True/False)
- Magnetic tape is a type of direct access device. (True/False) 1×10=10
- Answer the following in 25 to 50 words:
- What do you mean by Mainframe Computers ?
- Write a short note on Instruction Set.
- (iii) Differentiate between RISC and CISC Processors
- (iv) What is Digitizer ? What are its advantages?
- (v) What is FAT32? Part-B (Unit-I) 4×5=20 10 cach
- apabilities and limitations of computers. in the characteristics of Computers. Also discuss
- iss the block diagram of computer and explain orking of its each unit.

Turn Over

| Th | FET . TA TES |
|--------|--------------|
| Part-U | (Unit-II) |

| | | rart-c (cint-ri) | |
|---------|------------|--|-----|
| 4.) | Discu | iss the different types of memory available in a | |
| | comp | outer system. | 10 |
| 5. | (a) | Distinguish between Static RAM and Dynamic | |
| | | RAM. | |
| | (b) | What do you mean by Flash Memory ? What | |
| | | are its advantages ? | 5,5 |
| | | Part-D (Unit-III) | |
| 6. | | ain various point and draw devices in detail. | 10 |
| 7. | Diffe | erentiate between : | |
| | (i) | OCR and OMR | |
| | (ii) | Soft Copy Output and Hard Copy Output | |
| | (iii) | Trackball and Mouse | |
| | (iv) | Inkjet and Laser Printers 21/2×4= | =10 |
| | | Part-E (Unit-IV) | |
| 8. | (a) | What is an Operating System ? Why is it | |
| 340 | | necessary for a computer system ? | |
| <u></u> | (b) | What is Utility Program ? Explain. | 5,5 |
| (9. |) (a) | Differentiate between Linux and Windows. | |
| | (b) | What are 4GL ? Discuss their merits and | |
| | | demerits. | 5,5 |
| C | -57 | (4) | |