

PART-A

UNIT - I

1. (i) Compare BJT with FET.
- (ii) What is the role of a resistance in the circuit ?

UNIT - II

- (iii) Why memory is required in computer systems ?
- (iv) What is the role of a control unit ?

UNIT - III

- (v) How data is accessed using direct addressing.
- (vi) Name different types of registers.

UNIT - IV

- (vii) What is the difference between RAM and ROM ?
- (viii) Why virtual memory is used in the systems ?

UNIT - V

- (ix) Name different buses present in the system.
- (x) How many total I/O pins are there in 8085 microprocessor ? How many pins are there for address/data ?

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PART-B

UNIT - I

2. Describe working of a diode. Draw its characteristics. Based on characteristics, describe a circuit where diodes can be used.

3. Draw circuit diagram of 4-bit ripple counter and describe its working.

UNIT - II

4. Describe execution cycle in detail.
5. Describe working of ALU components in detail.

UNIT - III

6. Describe relative and indexed addressing with the help of examples in detail.
7. Describe immediate and indirect addressing with the help of examples in detail.

UNIT - IV

8. Differentiate between SRAM and DRAM describing their internal circuits.
9. Describe working of EPROM and EEPROM in detail.

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UNIT - V

10. Describe about a few popular auxiliary devices in detail.
11. Describe read and write operation in 8085 microprocessor in detail.

PART-C

UNIT - I

12. Describe edge and level triggering in detail.

UNIT - II

13. Describe controlling of arithmetic operations in detail.

UNIT - III

14. Describe various types of registers in detail.

UNIT - IV

15. Describe cache memory in detail.

UNIT - V

16. Describe about various addressing modes available in 8085 microprocessor with the help of examples.

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Total Pages : 4

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B.C.A. I Year Examination, 2015

Paper-VI

(Computer Organization)

Time : Three Hours

Maximum Marks : 100

PART - A (खण्ड-अ)

[Marks : 20

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर पचास शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART - B (खण्ड-ब)

[Marks : 50

Answer five questions (250 words each).

Selecting one from each unit. All questions carry equal marks.

प्रत्येक इकाई से एक-एक प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए।

प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART - C (खण्ड-स)

[Marks : 30

Answer any two questions (300 words each).

All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

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P.T.O.