2022
BCA
[HONOURS]
(CBCS)

(B.Sc. Fifth Semester End Examination-2022)
PAPER-DSE1P (Practical)

Full Marks: 20   **Time: 02 Hrs**

The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary

Answer any one question   **1x15=15**

1. Write an 8085 ALP to find and display gray code of 8-bit data in B register.

2. Write an 8085 ALP to find and display Hamming distance between contents of B and C register.

3. Write an 8085 ALP to find maximum of contents of memory locations $E000_H$ and $E001_H$ and display it.

4. Write an 8085 ALP to search for 00H in the contents of memory locations $F200_H$-$F209_H$. Display the memory location where first search is found.

5. Write an 8085 ALP to copy contents of memory locations from $CD00_H$-$CD09_H$ to $CD20_H$-$CD29_H$.

6. Write an 8085 ALP to find and display number of 0's present in *A*.

7. Write an 8085 ALP to reset four least significant bits of A and keep the most significant four bits of A unchanged.

8. Write an 8085 ALP to add contents of B-C register pair and D-E register pair. Store the 16-bit result in H-L register pair. .

9. Write an 8085 ALP to find maximum of memory locations $E500_H$ and $E600_H$ using sunroutine..

10. Write an 8085 ALP to check if the content of A is odd. Display the content of A if it is odd.

11. Write an 8085 ALP to add N 8-bit numbers.

12. Write an 8085 ALP to arrange an array on N numbers in ascending order.

13. Write an 8085 ALP to convert a given HEX number to binary.

14. All the bits of the accumulator in an 8085 microprocessor are 0 except one bit which is 1 write a program to determine which bit is 1. The result should be a decimal number from 0-7.

15. Write an 8085 ALP to transfer a block of data from one memory zone to the other.

Viva – 03

PNB – 02