

SH-V/Com. Sc.-504-DSE-2(PR)/19

B.Sc. 5th Semester (Honours) Practical Examination, 2019-20

COMPUTER SCIENCE

Course ID : 51527

Course Code : SH/CSC-504-DSE-2

Course Title: Microprocessor and Digital Image Processing

Time: 2 Hours

Full Marks: 15

*The figures in the right hand side margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.*

MICROPROCESSOR

Experiment – 10, LNB+Viva – 5

Perform *any one* experiment.

1. WAP for 32 bit binary division.
2. WAP for 32 bit binary multiplication.
3. WAP for 32 bit BCD addition.
4. WAP for 32 bit BCD subtraction.
5. WAP for binary to ascii conversion.
6. WAP for linear search
7. WAP for ascii to binary conversion.
8. WAP for binary search.

DIGITAL IMAGE PROCESSING

Experiment – 10, LNB+Viva – 5

Perform *any one* experiment.

1. WAP for translation of an Image.
2. WAP for rotation of an Image.
3. WAP for image restoration.

- 4.** WAP to understand 2-D convolution process.
 - 5.** WAP for image frequency domain filtering apply FFT on given image.
 - 6.** WAP for image morphological operation of erosion.
 - 7.** WAP to obtain negative image.
 - 8.** WAP to obtain flip image of a given image.
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