

1885

B.Sc. (G) / I

E

COMPUTER SCIENCE – Paper II

(Computer Organisation and Operating Systems)

Time : 3 Hours

Maximum Marks : 38

(Write your Roll No. on the top immediately on the receipt of this question paper. )

Attempt **ALL** questions.

Parts of a question should be answered together.

1. Perform the following conversions :
  - i)  $(101101)_2$  to  $( )_8$
  - ii)  $(675)_{10}$  to  $( )_{16}$
  - iii)  $(B25)_{16}$  to  $( )_2$  3
2. What are the characteristics of a Computer? 3
3. What are Optical disks? Differentiate between CDROM and DVDROM. 4
4. What is an ASCII standard? How many bits are used for its format? 4
5. Compare and contrast **any two** of the following:
  - i) MICR
  - ii) OCR
  - iii) OMR 4
6. Explain various types of process control block. 4
7. Explain different scheduling methods of an Operating System. 4
8. Explain different types of RAM. 4
9. What are memory segments? What are the advantages of segmentation? 4
10. What are the functions of main memory? 4