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Exam. Code : 206703 Subject Code : 5196

M.Sc. Computer Science 3rd Semester MCS-302 : SYSTEM SOFTWARE

Time Allowed—3 Hours] [Maximum Marks—100 Note :— Attempt any *five* questions in all. All questions carry equal marks.

- (a) Define system software. How it has evolved over the time period ? Also explain various components of system software. 2+4+4
 - (b) Write briefly about interpreters and assemblers. 5+5
- (a) How assembly process is carried-out ? Explain the design of one pass with example. 3+7
 - (b) What are microprocessors ? Explain their usage along with example. 3+7
- (a) How macro parameters are defined and implemented ? Explain with example for any operation of your choice.
 - (b) What do you mean by macro expansion ? Explain its various types along with suitable illustration.
 - 3+7
- (a) Why compilers are required ? Explain its various phases. 3+7
 - (b) Draw comparison of Cross and P-code Compilers. 5+5

(Contd.)

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- 5. (a) Why program linking is required before execution ? How it is carried out through linkage editors ? Explain.
 - (b) Explain few basic loader functions along with their importance. 10
- 6. (a) Define operating system. Explain its salient features. 10
 - (b) Why DBMS are required ? Explain various functions and parts in detail. 10
 - (a) Why "Text Editors" are called system software ? Explain in detail.
 10
 - (b) Define debugging. How it can be carried out through debugging systems ? Explain. 10

8. Write short notes on :

- (a) Storage Management for Compilers
- (b) Bootstrap Loaders. 10×2=20

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