## Question Paper Code: 60387

Reg. No. :

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Fifth Semester

Computer Science and Engineering

CS 2304/CS 54/CS 1304 A/10144 CS 505 — SYSTEM SOFTWARE

(Common to Information Technology)

(Regulations 2008/2010)

(Also common to PTCS 2304/10144 CS 505 – System Software for B.E. (Part time) Fourth Semester – CSE – Regulations 2009/2010)

Time : Three hours

Maximum: 100 marks

Answer ALL questions.

PART A —  $(10 \times 2 = 20 \text{ marks})$ 

1. Define system software.

- 2. What is the purpose of test device instruction of SIC?
- 3. State the importance of assembler directives.

4. Compare absolute expression and relative expression.

5. Mention the most fundamental function of a loader.

6. What is MS-DOS LINK?

7. What is the need for macro facility in assembly language programming?

8. What is a macro call and macro expansion?

9. What are the basic types of computing environments used in editor's functions?

10. Identify the use of command language processor.

			PART B — $(5 \times 16 = 80 \text{ marks})$	
11.	(a)	Expl	lain in detail about SIC standard model.	(16)
			Or	
	(b)	Desc	cribe the SIC/XE machine Architecture.	(16)
12.	(a)	(i)	Explain how the program blocks are assembled.	(8)
		(ii)	Discuss the functions of two pass assemblers.	(8)
			Or	
	(b)	Expl	ain the features of machine-independent assembler.	(16)
13.	(a)	(i)	Explain the functions of a loader in detail.	(8)
		(ii)	What is BOOTSTRAP loader? Explain its characteristics examples.	with (8)
			Or	
	(b)	(i)	Explain the dynamic linking in detail.	(8)
		(ii)	Compare linking loader and linkage editor.	(8)
14.	(a)	Desc	ribe machine-independent macro processor features.	(16)
			Or	
	(b)	Expl	ain the macro processor design options.	(16)
15.	(a)	(i)	Write shortly about the tasks performed in the editing process.	(6)
		(ii)	Explain the User-Interface of an Editor.	(10)
			Or	
	(b)	Disc	uss about the interactive debugging systems.	(16)