Total Pages: 3

PC-133/AK

O-2/2041

SOFTWARE ENGINEERING Paper – MS(A)-213 IInd Year (Annual)

Time: Three Hours] [Maximum Marks: 80

Note: Attempt *five* questions in all, selecting at least *two* questions each from Section A and B. Section C is compulsory.

SECTION - A

- I. Define the term "Software Engineering". What are its characteristics? What are the goals of software engineering?
 Explain the major differences between software engineering and other traditional engineering.
- II. Elaborate the waterfall model giving its merits and demerits.
- III. What do you mean by Software Requirement Specifications (SRS)? What is its need? Discuss various characteristics of SRS.

IV.	Give the characteristics of a good software designated	gn.
	What causes increased productivity when object orien	ted
	paradigm is used?	16
	SECTION – B	
17	Differentiate between softween varification and validati	
V.	Differentiate between software verification and validati	
	List various methods of code verification. Explain any a method in detail.	one 16
	method in detail.	10
VI.	What is the difference between functional testing a	nd
	structural testing? Discuss any two methods of function	nal
	testing in detail.	16
VII.	What do you mean by software maintenance? What	are
	various types of software maintenance? Why softw	are
	maintenance is considered most important? Explain.	16
17111	. Discuss the following in detail :	
V 111	. Discuss the following in detail .	
	(a) Automated Testing Tools.	8
	(b) Reverse Engineering.	8
	SECTION – C	
IX.	(a) What are the qualities of software?	2
	(b) What do you mean by process modelling?	2

(c)	what are varous project planning activities?	2
(d)	What is cohesion?	2
(e)	What do you mean by cyclomatic complexity?	2
(f)	What are the merits of using programming standar	ds?
(g)	What is forward engineering?	2
(h)	What are various applications of CASE tools?	2