## MCA (SEM V) THEORY EXAMINATION 2021-22 SOFTWARE ENGINEERING

Total Marks: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

## SECTION A

	Sp.	
Afte	mpt all questions in brief.	$2 \times 7 = 14$
[a]	Write two advantages of Waterfall model of Software life cycle	
b.	What do you mean by Requirement Gathering?	
c.	What is Cyclomatic Complexity?	
d.	What are the fundamentals of Testing? Explain in brief.	
e.	What is Project Planning and Control?	
f.	Explain in brief about cost estimation.	
g.	What is reusability in Software Engineering?	
	SECTION B	- 4 41
Atten	A and the safety of the fall and most	$7 \times 3 = 21$
a. 🗸	Explain the need of Software life cycle models in Software En	gineering.
b	Why do we use Validation and Verification in Quality Assurar	nce Plans?
c.	Evaluin in detail about DED and Structure Lingit.	
d.	Explain in detail about DFD and Structure Chast.  Explain the Constructive Cost Model (COCOMO) used for de	termining the
۵.	software cost estimate	
e	What do you mean by Software Maintenance? Explain in deta	il
		·
	SECTION C	$7 \times 1 = 7$
	pt any one part of the following:	
(a)	What are the major differences between System Engineering	ig and bozz
	Engineering?	netimes
(b),	Explain Water fall Model. What are the problems that are son	ile il ilio
	encountered when the waterfall model is applied?	$7 \times 1 = 7$
Attemp	ot any one part of the following:	
(a)	Explain the Software requirement Analysis and Specification	. Discuss
1	various methods for Requirement gathering.	
(b)	Explain the Requirement Elicitation and Analysis Process.	
Attemp	t any one part of the following;	$7 \times 1 = 7$
	What is meant by Modular Design? When and how should	a modular desig
(a)	the involvement of the control of th	a modalar arole
<del></del>	be implemented?	n Troo?
	What is the difference between Decision Table and Decision	
Attemp	any one part of the following:	$7 \times 1 = 7$
<u> </u>	Discuss White Box techniques in detail	
(b) V	What is the process of Software Testing? Explain the differ	ent testing
	ethods illustrating their importance.	
	any one part of the following:	7 - 1 -
		$7 \times 1 = 6$
) W	hat do you mean by Function Point Analysis? Mention t	he features of it
7/5	d CC Commo Maint	

Discuss the concept of Software Maintenance Process. •