

## Syllabus for Sandip University Joint Entrance Exam(SU-JEE)

Exam Name – SU-JEE M.Sc. Computer Science

Heads	Syllabus	No of Questions
<b>Unit – I</b>	<b>INTRODUCTION TO C</b> -History ,Structure of a C program ,Functions as building blocks ,Application Areas ,Keywords ,Identifiers ,Variables ,Constants ,Data types ,Operators and Expressions Operator types,Input and Output ,Control Structures ,Functions in C , Arrays ,Pointers ,Strings ,Structures and Unions ,File Handling ,C Preprocessor.	20
<b>Unit-II</b>	<b>OBJECT ORIENTED PROGRAMMING USING 'C++'</b> -Elements of Object Oriented programming, Objects, Classes, OOP features,Classes & Objects,Constructors & Destructors,Operator overloading ,Dynamic objects,Inheritance,Virtual functions,Exception handling. Linked List, Representation of Single, Double, Header, Circular Single and Double Linked list,Stacks and queues,Trees and Graphs.	20
<b>Unit-III</b>	<b>INTRODUCTION TO JAVA</b> :History of Java, features of Java, getting started with Java. Java programs -Introduction of Application &Applets. Variables,Operators,Tokens,Creating a class & subclass,Data members,Methods,Access Specifier & Modifiers,Overloading ,Java class library,Decision making &	20

	<p>loops,Array,String,Inheritance ,Interfaces,Packages,Import statement,Applets ,Threads ,Exceptions &amp; Errors,Event ,Graphic class,AWT Applications,Components &amp; Control ,Menus ,Image,Layouts,Container .</p>	
<b>Unit-IV</b>	<p><b>OPERATING SYSTEM:</b>Operating system using Linux-Definition of Operating System, Types of Operating System, features of Unix, Basic Architecture of Unix/Linux system, features of Kernel and Shell. Unix File system-Boot block, super block, Inode table, data blocks, How Unix/Linux kernel access files,</p> <p>Unix/Linux standard file system. Structure of file system, Essential Linux commands ,file comparisons,Filters and pipes ,The process ,Mathematical commands,Creating and editing files with VI editor with their command options, Communication,System administration Common administrative tasks, identifying administrative files ,Installation of Unix/Linux system.</p>	20
<b>Unit-V</b>	<p><b>QUANTITATIVE APTITUDE</b>-AREA,Average,Boats and streams,surds and indices,Ratio and proportion,Pipes and Cisterns,Partnership,Volume and surface area,Compound interest,Problem on Ages,Percentage,HCF and LCM,Simple interest,Problems on trains,Profit and loss,Time and distance,Time and work.</p>	20
<b>Total</b>		<b>100</b>