

**M.Sc. (I.T) Sem-III Examination Oct 2019**  
**Subject: - Programming in PYTHON**  
**Paper Code: 302**  
**Subject Code: 22699**

**Time : 2  $\frac{1}{2}$  Hours**

**Total Marks: 70**

Q-1	Explain the process of computational problem solving.	14
<b>Or</b>		
Q-1(A)-(i)	Write a detailed note on : "Python Datatypes".	07
Q-1(A)-(ii)	Explain user define function in python.	07
Q-1(B)	Do as directed. (Any Four out of six)	04
	1. Lists application of python.	
	2. Define the term "operator in python".	
	3. Which is a right assignment of a variable. A)x=y=z=50 B)x,y,z=10,25,35 C)x,y=10,10.5 D)All above	
	4. Define the term "variable in python".	
	5. Define the term "Expression in python".	
	6. How to create tuple in python.	
Q-2	Write a detailed note on : "Control structures"	14
<b>Or</b>		
Q-2(A)-(i)	What is file handling? Explain it in detail.	07
Q-2(A)-(ii)	Explain Set Data Type with suitable example.	07
Q-2(B)	Do as directed. (Any Four out of six)	04
	1. What is the use of random module in python.	
	2. Define the term "built in container".	
	3. List out access modes available when open a new file.	
	4. Explain Encode() method.	
	5. what is Character encoding in python.	
	6. What is the use of seek() and tell() method.	
Q-3	What is namespace? Explain it in detail.	14
<b>Or</b>		
Q-3(A)-(i)	What is operator overloading? Explain it with suitable example.	07
Q-3(A)-(ii)	Write a detailed note on : "Turtle Graphics".	07
Q-3(B)	Do as directed. (Any Three out of Five)	03
	1. Define the term : "Encapsulation".	
	2. Explain dir() function in short.	
	3. Define the term : "Polymorphism"	
	4. What is absolute positioning in turtle graphics?	
	5. Write a syntax to create a class and object in python.	

(P.T.O)

Q-4	What is graphical user interface? List all Event-based tkinter widgets and explain any two in detail.	14
<b>Or</b>		
Q-4(A)-(i)	What is recursion? Explain it with suitable example.	07
Q-4(A)-(ii)	Explain database programming in python.	07
Q-4(B)	Do as directed. (Any Three out of Five)	03
	<ol style="list-style-type: none"><li>1. What is API in python?</li><li>2. Define the term : "World Wide Web".</li><li>3. Define the term : "Regular Expression".</li><li>4. What is base case in recursion.</li><li>5. What is linear search explain it in sort.</li></ol>	