## KENDRIYA VIDYALAYA NO 1 AFS JALAHALLI (WEST) MONTHLY TEST AUG 2019 Informatics Practice (XII C,D)

MM:	25	TIME:1 H	IRS
Q.1	a)	What is software engineering? Mention two reasons for the need of Software Engineering.	2
	b)	What is the difference between unit testing and system testing in a software process?	2
	c)	What do you understand by software prototyping? Name the process model that uses prototyping approach.	2
	d)	Mention one advantage and one disadvantage of component-based model.	2
	e)	Name the two software delivery models? Which of these is best suited for large-scale system development	2
Q.2	a)	What do you understand by a cumulative histogram?	1
	b)	Write a python program to create a bar chart with the following information:    Country   Population	3
	c)	Which type of plot is best suited to describe the correlation between two variables?	1
	d)	Draw a sample box plot and label its components.	2
Q.3	a)	Mention the any four guidelines for Agile Manifesto.	2
	b)	Mention two advantages of Pair programming.	2
	c)	Which member of Scrum team is responsible for making sure that the scrum has been understood and enacted?	1
Q.4	a) b)	What will be the output of the following python code: import numpy as np a = np.array([[6,5,4],[3,4,5],[1,2,3]], dtype=np.int32) print(np.sum(a, axis=1)) Write python code to create a 4 cross 4 identity matrix.	2