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MONTH SEPT. 2019 CLASS: XII SUBJECT: CS MM: 30

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Q.1 Explain the various factors in detail which affects the performance of program algorithm. [4]								
Q.2 Determine the complexity of a program that searches for an element in an array / list. [3]								
Q.3 what is difference between "text file" and "binary file". [1]								
Q.4 Write a program to perform insert and delete operations on a Queue containing member's details as given in the following definition of member_node. [4]								
Membe Membe Age	erNo erName	Integer String Integer						
Q. 5 Convert the following infix expression into postfix expression by using stack application. Show the status of both stack and output for each input.								
(a)	((A-B)*(D/E))/(I	F*G*H)	OR	(b) NOT (A OR B) AND	O C			
Q.6 Evaluate the following postfix notation of expression by using stack application.								
(a) True, False, NOT, AND, True, True, AND, OR						[2]		
OR								
(b)	(b) AB - CD + E * + (Where A=5, B=3, C=5, D=4 and E=2)							
Q.7 Explain the following functions in reference to list in python with example of python codes.								
(a) app	end ()	(b) ins	ert ()	(c) remove ()	(d) pop ()	[4]		
Q.8 Write the purpose of following statements. [2]						[2]		
(a) matplotlib.pyplot.plot()								
(b) matplotlib.pyplot.pie()								
(c) matplotlib.pyplot.bar()								
(d) matplotlib.pyplot.barh()								

	EMPID	Gender	Age	Sales	вмі	Income
0	E001	м	34	123	Normal	350
1	E002	F	40	114	Overweight	450
2	E003	F	37	135	Obesity	169
3	E004	M	30	139	Underweight	189
4	E005	F	44	117	Underweight	183
5	E006	M	36	121	Normal	80
6	E007	M	32	133	Obesity	166
7	E008	F	26	140	Normal	120
8	E009	M	32	133	Normal	75
9	E010	M	36	133	Underweight	40

- (i) Write code to draw the bar chart with title= "Employee Health Report", labels of x-axis = "Age of Employee" and y-axis = "Sales".
- (ii) Write code to draw the multi bar chart for (age, sales and Income) with title= "Employee Health Report", and also use appropriate legends for charts.
- Q.10 What is data visualization? How data visualization can be support by python?

[2]

Q.11 Write code to draw pie chart for following State and population of various states given in below table. [2]

State	Rajasthan	Punjab	Haryana	Uttrakhand	Maharastra	Bihar
Population	52354	21354	32142	31254	41253	43215

