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MONTHLY TEST(SEPTEMBER) 2019 Subject :CS

TIME: 40 MIN

MM:35

- Q 1 a) What is Stack .Enlist some application of stacks. 03
b) What is Circular Queue? 01
c) Difference between Stack and an Array? 02
- Q.2 a) Translate Following infix Expression into Postfix notation? 02
(A+B↑D)/ (E-F)+G
- b) Evaluate the following postfix expression using stack: 02
20+45,+,20,10,-,15,+,4
- c) Write a Python function pushbook() and popbook() to perform insert and delete operation from stack which contains Bno and title. 04
- d) Write the destination in python to add a new passenger detail in dynamic queue. 04
- e) write a function delete() in python to perform delete operation which contains passenger no and passenger name . 04
- Q. 3 a) Predict the output 06
- i) `temp=['Greeks', 'for', 'Greeks']
arr=[i[0].upper() for i in temp]
print(arr)`
- ii) `def gfg (x,l=[]):
 for i in range (x):
 l.append(i*i)
 print(l)
gfg(3,[3,2,1])`
- iii) `L1= [x*x*2 for x in range(10) if x%3==0]
L2= L1
L1.append(len(L1))
print(L1)
print(L2)
L2.remove(len(L2)-1)
print(L1)`
- Q.4 a) Write list comprehension to Produced result as 03
`[100,1000,10000,25,125,625,48,16]`
- b) Write two advantages of list comprehension. 02
- c) What are the two different data structure define. 02
