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| **PT1/CSAK/1222/A 09-MAY-2022** | | | |
| **PERIODIC TEST I (2022-23) – ANSWER KEY – SET 1** | | | |
| **Subject: Computer Science (PYTHON)**  **Grade: XII** | | Max. Marks: 35Time: 80 min | |
| **Qno** | **SECTION A** | | Mark |
| 1. | In python we do not specify types, it is directly interpreted by the compiler, so consider the following operation to be performed.  x = 13 ? 2  The objective is to make sure that x gets an integer value as an output. Select all correct options   1. x = 13 // 2 2. x = int(13 / 2) 3. x = 13 % 2 4. All of the mentioned | | 1 |
| **2.** | What is the output of the following?  i = 1  while True:  if i%3 == 0:  break  print(i,end=’ ‘)  i + = 1  a) 1 2  b) 1 2 3  c) error  d) none of the mentioned | | 1 |
| **3.** | What is the output of the following?  x = 'abcd'  for i in range(len(x)):  print(x,end=' ')  x = 'a'  a) a  b) abcd abcd abcd abcd  c) a a a a  d) abcd a a a | | 1 |
| **4.** | What is the output of the following?  print("xyyzxyzxzxyy".count('yy', 2))  a) 2  b) 5  c) 1  d) 0 | | 1 |
| **5.** | Which of the following function headers is correct?  a) def fun(a = 2, b = 3, c) b) def fun(a = 2, b, c = 3) c) def fun(a, b = 2, c = 3) d) def fun(a, b, c = 3, d) | | 1 |
| **6.** | What is the output of the following?  def fun (n):  if (n % 100==0):  return n - 5  else:  return (8+n//5\*2-4)  print(fun(450))  a) 445  b) 184  c) 49  d) 192 | | 1 |
| **7.** | Which of the given argument types can be skipped from a function call?  a) positional arguments  b) keyword arguments  c) named arguments  d) default arguments | | 1 |
|  | **SECTION B** | |  |
| **8.** | Mutable – datatypes whose values can be changed in place. Eg: list , dictionary  Immutable - datatypes whose values can be changed in place. Eg: string , tuple  (1 mark for difference ,1 mark for example) | | 2 |
| **9.** | Choose the correct output/s for the following? Also find the maximum and minimum value of variable Num.  Maximum – 5 , Minimum -0  Options a) and d) are correct  (1 mark for min and max value , 1 mark for correct options) | | 2 |
| **10.** | What is the output of the following?  ['', 'X1', 'X1', 'M2']  ( ½ mark for each correct character) | | 2 |
| **11.** | Underline the error and rewrite the correct program  def pgmfn(x,y=2,z): def pgmfn(x,z,y=2):  if x%2=0: if x%2==0:  x=+z  if x+y>z:  return x,y,z  elif: else:  return x,y,z  a,b=pgmfn(z=5,x=8) a,b,c=pgmfn(z=5,x=8) or a=pgmfn(z=5,x=8)  print(a)  ( 2 mark for pointing out/underlining the 4 errors , 1 mark for writing the correct program) | | 3 |
| **12.** | Find the output of the following program segment:-  118  58#149  value of x is 7  (1 mark for each line of output) | | 3 |
| **13.** | pPTton #..  New TEXT: PYthON 3.6  (2 mark for 1st line of output , 1 more for last line of output) | | 3 |
| **14.** | a) Actual argument – Variables present in function call statement  Formal parameter – Variables present in function header  Eg:  def add(a,b):  return a+b  x=5  y=3  print(add(x,y))  Here a, b are formal parameters and x,y are actual arguments  (1 mark for definition ,1 mark for example)  b) docstring – Documentation string. It is like a comment and is ignored by python interpreter.  (1 mark for definition of doctsring) | | 2 |
|  | **SECTION C** | |  |
| **15.** | def convdecbin(x):  s=''  while x!=0:  r=x%2  s=s+str(r)  x=x//2  print("Binary equivalent is" ,s[::-1])  def hcf(a,b):  if a>b:  s=b  else:  s=a  for i in range(1,s+1):  if a%i==0 and b%i==0:  hcf=i  print(hcf)  convdecbin(hcf)  x=int(input("Enter 1st no"))  y=int(input("Enter 2nd no"))  hcf(x,y)  (2 mark for hcf() funation , 2 mark for convdecbin() function ,1 mark for numbers entry and main function call) | | 5 |
| **16.** | def cwords(st):  d={}  x=st.split()  for i in x:  c=x.count(i)  if c>1:  d[i]=c  print(d)  def ucwords(st):  l=[]  x=st.split()  for i in x:  c=x.count(i)  if c==1:  if i[0] in ['A','E','I','O','U','a','e','i','o','u']:  l.append(i)  print(l)  st=input(“Enter string”)  cwords(st)  ucwords(st)  (2 mark for cword() funation , 2 mark for ucword() function ,1 mark for string entry and main function calls) | | 5 |

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