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1 MCQ
2 1 What will be the output of the following code snippet?
3 def func(a, b):
4     return b if a == 0 else func(b % a, a)
5 print(func(30, 75))
6 a) 10
7 b) 20
8 c) 15
9 d) 0
10 Ans. b) 15
11
12 2 numbers = (4, 7, 19, 2, 89, 45, 72, 22)
13 sorted_numbers = sorted(numbers)
14 even = lambda a: a % 2 == 0
15 even_numbers = filter(even, sorted_numbers)
16 print(type(even_numbers))
17 a) Int
18 b) Filter
19 c) List
20 d) Tuple
21 Ans. b) Filter
22
23 3) As what datatype are the *args stored, when passed into
24 a) Tuple
25 b) List
26 c) Dictionary
27 d) none
28 Ans.a) Tuple
29
30 4) set1 = {14, 3, 55}
31 set2 = {82, 49, 62}
32 set3={99,22,17}
33 print(len(set1 + set2 + set3))
34 a) 105
35 b) 270
36 c) 0
37 d) Error
38 Ans. d)Error
39
40 5) What keyword is used in Python to raise exceptions?
41 a) raise
42 b) try
43 c) goto
44 d) except
45 Ans. a) raise
46
47
48 6) Which of the following modules need to be imported to handle date time computations
49 in
50 Python?
51 a) timdate
52 b) date
53 c) datetime
54 d) time
55 Ans. c) datetime
56
57 7) What will be the output of the following code snippet?
58 print(4**3 + (7 + 5)**(1 + 1))
59 a) 248
60 b) 169
61 c) 208
62 d) 233
63 Ans. c) 208
64
65 8) Which of the following functions converts date to corresponding time in Python?
66 a) strptime
67 b) strftime
68 c) both a) and b)
69 d) None
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69 Ans. a) strptime
70
71
72 9) The python tuple is _____ in nature.
73 a) mutable
74 b) immutable
75 c) unchangeable
76 d) none
77 Ans. b) immutable ,c) unchangeable
78
79
80 10)
81 The ____ is a built-in function that returns a range object that consists series of
integer numbers, which
82 we can iterate using a for loop.
83 A. range()
84 B. set()
85 C. dictionary{}
86 D. None of the mentioned above
87 Ans. A. range()
88
89 Question 11
90 Amongst which of the following is a function which does not have any name?
91 A. Del function
92 B. Show function
93 C. Lambda function
94 D. None of the mentioned above
95 Ans. C. Lambda function
96
97 Question 12
98 The module Pickle is used to ____.
99 A. Serializing Python object structure
100 B. De-serializing Python object structure
101 C. Both A and B
102 D. None of the mentioned above
103 Ans.C. Both A and B
104
105 Question 13
106 Amongst which of the following is / are the method of convert Python objects for writing
data in
107 a binary file?
108 A. set() method
109 B. dump() method
110 C. load() method
111 D. None of the mentioned above
112 Ans. B. dump() method
113
114 14
115 Amongst which of the following is / are the method used to unpickling data from a binary
file?
116 A. load()
117 B. set() method
118 C. dump() method
119 D. None of the mentioned above
120 Ans.A. load()
121
122
123 15.
124 A text file contains only textual information consisting of ____.
125 A. Alphabets
126 B. Numbers
127 C. Special symbols
128 D. All of the mentioned above
129 Ans. D. All of the mentioned above
130
131
132 16
133 Which Python code could replace the ellipsis (...) below to get the following output?
(Select all that

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134 apply.)
135 captains = {
136     "Enterprise": "Picard",
137     "Voyager": "Janeway",
138     "Defiant": "Sisko",
139 }
140 Enterprise Picard,
141 Voyager Janeway
142 Defiant Sisko
143 a) for ship, captain in captains.items():
144     print(ship, captain)
145 b) for ship in captains:
146     print(ship, captains[ship])
147 c) for ship in captains:
148     print(ship, captains)
149 d) both a and b
150 Ans. d) both a and b
151
152
153 17)
154 Which of the following lines of code will create an empty dictionary named captains?
155 a) captains = {dict}
156 b) type(captains)
157 c) captains.dict()
158 d) captains = {}
159 Ans. d) captains = {}
160
161
162 18) Now you have your empty dictionary named captains. It's time to add some data!
163 Specifically, you want to add the key-value pairs "Enterprise": "Picard", "Voyager":
    "Janeway",
164 and "Defiant": "Sisko".
165 Which of the following code snippets will successfully add these key-value pairs to the
166 existing captains dictionary?
167 a) captains{"Enterprise" = "Picard"}
168     captains{"Voyager" = "Janeway"}
169     captains{"Defiant" = "Sisko"}
170 b) captains["Enterprise"] = "Picard"
171     captains["Voyager"] = "Janeway"
172     captains["Defiant"] = "Sisko"
173 c) captains = {
174     "Enterprise": "Picard",
175     "Voyager": "Janeway",
176     "Defiant": "Sisko",
177 }
178 d) None of the above
179 Ans. b) captains["Enterprise"] = "Picard"
180     captains["Voyager"] = "Janeway"
181     captains["Defiant"] = "Sisko"
182
183
184 19 ) You're really building out the Federation Starfleet now! Here's what you have:
185 captains = {
186     "Enterprise": "Picard",
187     "Voyager": "Janeway",
188     "Defiant": "Sisko",
189     "Discovery": "unknown",
190 }Now, say you want to display the ship and captain names contained in the dictionary,
    but you also
191 want to provide some additional context. How could you do it?
192 a) for item in captains.items():
193     print(f"The [ship] is captained by [captain].")
194 b) for ship, captain in captains.items():
195     print(f"The {ship} is captained by {captain}.")
196 c) for captain, ship in captains.items():
197     print(f"The {ship} is captained by {captain}.")
198 d) All are correct
199 Ans. for ship, captain in captains.items():
200     print(f"The {ship} is captained by {captain}.")

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201
202
203 20 )
204 You've created a dictionary, added data, checked for the existence of keys, and iterated
    over it with
205 a for loop. Now you're ready to delete a key from this dictionary:
206 captains = {
207     "Enterprise": "Picard",
208     "Voyager": "Janeway",
209     "Defiant": "Sisko",
210     "Discovery": "unknown",
211 }
212 What statement will remove the entry for the key "Discovery"?
213 a) del captains
214 b) captains.remove()
215 c) del captains["Discovery"]
216 d) captains["Discovery"].pop()
217 Ans. c) del captains["Discovery"]
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