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| **FE/EEECSQP/1121/A 02-MAR-2022** | | | |
| **EEE CONSORTIUM**  **FINAL EXAMINATION (2021-22)** | | | |
| **Subject: Computer Science (083)**  **Grade: XI** | | Max. Marks: 35Time: 2 Hrs | |
| General Instructions:This question paper consists of four sections A, B, C . Each part is compulsory.Section A – consists of 12 questions (1-12). Each question carries 1 mark.  1. Section B – consists of 7 questions (13-19). Each question carries 2 marks. 2. Section C – consists of 3 questions (20-22). Each question carries 3 marks. 3. All programming questions are to be answered using Python Language only | | | |
| **Qno** | **SECTION A** | | Mark |
| **1.** | If a variable is defined as follows:  >>> var='a','b'  The type(var) will be   1. Error cannot declare var 2. <class ‘str’> 3. <class ‘list’> 4. <class ‘tuple’> | | 1 |
| **2.** | Which line out of the given option will cause an error given two lists  L1=["Hi","how","are","you"]  L2=["Hi",["how","are"],"you"]   1. L1==L2 2. L1[3].upper( ) 3. L2[1].upper( ) 4. L2[1][1].upper( ) | | 1 |
| **3.** | What will be the output of the program?  a = {}  a[1] = 1  a['1'] = 2  a[1]=a[1]+1  count = 0  for i in a:  count += a[i]  print(count) | | 1 |
| **4.** | Write the output of the following.  a=(23,34,65,20,5)  print(a[0]+a.index(5)) | | 1 |
| **5.** | Name the Python library modules which need to be imported to invoke the following function:  a) sin()  b) randrange() | | 1 |
| **6.** | Write the most appropriate list method to perform the following tasks :   1. Add an element in the beginning of the list. 2. Delete the last element from the list. | | 1 |
| **7.** | After a fight with your friend, you did the following activities. Which of these activities is not an example of cyber bullying?   1. You sent an email to your friend with a message saying that “I am sorry”. 2. You sent a threatening message to your friend saying, “Do not try to call or talk to me”. 3. You created an embarrassing picture of your friend and uploaded on your account on a social networking site. 4. You sent mails to other friends including him/her and write insulting words to him/her. | | 1 |
| **8.** | To protect a computer from computer security threats like viruses, spyware etc. you should install:   1. Cookies 2. Firewall 3. Defragmenter 4. Antivirus | | 1 |
| **9.** | Name the following:   1. A small text file on the user’s computer where visited websites store own information about user. 2. The exclusive legal right to reproduce, publish, sell, or distribute the matter and form of something (such as a literary, musical, or artistic work). | | 1 |
| **10.** | Explain the term spyware. | | 1 |
| **11.** | You got the below shown SMS from your bank querying a recent transaction.    Answer the following:   1. Will you SMS your pin number to the given contact number? 2. Will you call the bank helpline number to recheck the validity of the SMS received? | | 1 |
| **12.** | What is meant by open-source software? | | 1 |
|  | **SECTION B** | |  |
| **13.** | The record of a student (Name, Roll No., Marks in five subjects and percentage of marks) is stored in the following list:  stRecord = ['Raman','A-36',[56,98,99,72,69], 78.8]  Write Python statements to retrieve the following information from the list stRecord if the date stored in the list is:  stRecord.(Fields of list stRecord are name,address,marks,percentage)  stRecord = ['Raman','A-36',[56,98,99,72,69], 78.8]   1. Percentage of the student 2. Marks in the fifth subject | | 2 |
| **14.** | What is the difference between Python's list methods append and extend? Explain by code snippet. | | 2 |
| **15.** | **Write a program to input a tuple of ‘n’ integers and find the minimum, maximum and sum.** | | 2 |
| **16.** | What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the minimum and maximum value that can be assigned to the variable PICKER.  import random  PICKER=random.randint(0,3)  COLORS=["BLUE","PINK","GREEN","RED"]  for I in COLORS:  for J in range(1,PICKER):  print(I,end="")  print()   1. BLUE   PINK  GREEN  RED   1. BLUE   BLUEPINK  BLUEPINKGREEN  BLUEPINKGREENRED     1. PINK   PINKGREEN  PINKGREENRED   1. BLUEBLUE   PINKPINK  GREENGREEN  REDRED | | 2 |
| **17.** | Write the differences between the following  a) Copyrights and Patents  b) Active and Passive footprints | | 2 |
| **18.** | What is data privacy? Websites that you visit collect what type of information about you? | | 2 |
| **19.** | Which types of gender and disability issues are created while teaching and using computer? | | 2 |
|  | **SECTION C** | |  |
| **20.** | Write a program to accept a list of integers and count the number of digits each number has and print the count of each number . If number of digits are even replacing the number in the list with double of the original number.  **EXAMPLE:**  If the entered list is:  [23,890,60356,2000,6]  **OUTPUT**:  23 has 2 digits  890 has 3 digits  60356 has 5 digits  2000 has 4 digits  The list after change [46,890,60356,4000,6] | | 3 |
| **21.** | A dictionary D1 has values in the form of lists of numbers. Write a program to create a new dictionary D2 having same keys as D1 but values as the sum of the list elements.  **Example:**  If the entered dictionary:  D1 = {'A': [1, 2, 3], 'B': [4, 5, 6]}  **Output:**  D2 is {'A':6, 'B': 15} | | 3 |
| **22.** | Nidhi has recently shifted to new city and new school. She does not know many people in her new city and school. But suddenly, someone is posting negative, demeaning comments on her social networking profile, school site’s forum etc.  She is also getting repeated mails from unknown people. Every time she goes online, she finds someone chasing her online.   1. Name the two cybercrime issues which Nidhi is facing. 2. Define and explain any one of the two cybercrime issues Nidhi is facing 3. What action should she take to stop them? | | 3 |

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