104 Pucs Progwish Python 15

Q.P. Code: 756001

| | | (2½ Hour | rs) | [Total Marks : 75 |
|--------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| N.B. : | (1) (2) (3) | All the questions are compulsory. Figures to the right indicate full m Illustrations, in-depth answers and d | The second secon | s will be appreciated. |
| | (4) (5) | Mixing of sub-questions is not allow Assume suitable data wherever requ | | |
| | | II (Each of 5 Marks) ple choice questions : | | |
| | -(1) | and, or, not are | ope | erators. |
| | | (i) Arithmetic | (ii) | Logical |
| | (: | iii) Relational | (iv) | Assignment |
| | (2) | What is the output of len([1, 2, | 31) 2 | |
| | (~) | (i) 1 | (ii) | 2 |
| | (i | (ii) 3 | (iv) | |
| | (3) | A variable defined inside the variable. (i) Local | functie | on is called Global |
| | (i | ii) Block | (iv) | Identifier |
| | (4) | 50 - (C. 142 - A.19) - (S. 144 - S. 144 - A.19) - (S. 144 | con ve | rts a string to all uppercase? |
| 35 | | (i) upper () | (ii) | isdecimal () |
| 18,00 | (i | ii) Swapcase () | (iv) | title () |
| ns i | ((i | What is the output of the follow k = [print (i) for i in my_string if (i) prints all the vowels in my_string if) prints all the consonants in my_if) prints all characters of my_string. None of these | fiin "a ng _string | |

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| (b) | Fill in the blanks. | | | | |
|-------|------------------------------|------------------------------------------------------------------------------------------------------------------|-------|--|--|
| | (1) | &&, , ^ are operators | | | |
| | (2) | arithmetic operator (%) is used for | 27 | | |
| | (3) | Statement terminates the loop statement and transfers execution to the statement immediately following the loop. | 300 | | |
| | (4) | | 8.90 | | |
| | (5) | 그 그 그는 | 30.2 | | |
| (c) | Short | answers: | | | |
| (0) | (1) | | | | |
| | (2) | | | | |
| | (3) | | | | |
| | (4) | | | | |
| | (5) | | | | |
| Ans | swer a r | ay three from the following : (Each of 5Marks) | 15 | | |
| | (a) | Write a short note on IDLE. | .I. v | | |
| | (b) | Discuss Operator Precedence along with an example. | | | |
| | (c) | What is variable? What are the rules and conventions for declaring a variable? | | | |
| | (d) | What is the difference between simple and expression statements? | | | |
| | (e) | Explain "string" data types in regards with following: | | | |
| | | (i) Declaration and initialization of variable of "string" data type | | | |
| | | (ii) Displaying second character of a string. | | | |
| | | (iii) Display all characters of a string. | | | |
| | | (iv) Display all characters starting from second position in a string. | | | |
| | | (v) Repeat string twice and display it. | | | |
| 10 | (f) | Write a program to calculate area of rectangle and circle. Take input from | | | |
| | | the user. | | | |
| . Ans | wer an | y three from the following (Each of 5Marks) | 15 | | |
| | | How do we implement if-elif condition? explain with example. | 10 | | |
| | Total Control of the Control | Explain continue statement. | | | |
| | | Discuss the difference between local and global variable. | | | |
| | | What is actual and formal parameter in user defined functions? | | | |
| | | Explain Tuples. How do we create Tuples? Explain with example. | | | |
| | The second second second | Write a program to print the numbers divisible by 3 till n. Take n as input | | | |
| 19 | | from user. (Create user defined function). | | | |

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| 4. Ans | swer a | any three from the following : (Each of 5Marks) | 1 | |
|--------|---------------|------------------------------------------------------------------------------------------------------------|------|--|
| | (a) | What is the difference between user defined function and anonymous | | |
| | | function? | | |
| | (b) | Write a short note on List Comprehension. | 3 | |
| | (c) | Explain the following terms of Object Oriented Programming: | 0.05 | |
| | | (i) Class (ii) Methods | 1 | |
| | (d) | Discuss the concept "Dictionary". | 2 | |
| | (e) | Define Built-in functions. Explain any 4 built-in functions along with an example. | | |
| | (f) | Write a program to create an anonymous function to calculate Cube of a number. | | |
| 5. Ans | swer a | ony three from the following : (Each of 5Marks) | 1 | |
| | (a) | Define user defined function. Write the syntax to define user defined function. Give example for the same. | | |
| | (b) | Illustrate the use of range () in python along with an example. | | |
| | (c) | Write a short note on assert statement. | | |
| | (d) | What is the difference between interactive and script modes of IDLE? | | |
| | (e) | Explain for loop with example. | | |