Q.P. Code: 756001

| | | | | (2½ Hours) | | 1 Total Marks: 75 | | | |
|----------------|---|--------|--|--|------------|--------------------------------|--|--|--|
| N.B. : | (1) | All | the questions are | e compulsory. | 83 | | | | |
| | (2) Figures to the right indicate full marks. | | | | | | | | |
| | (3) | _ | _ | | 0, (4), 1/ | will be appreciated. | | | |
| | (4) Mixing of sub-questions is not allowed. | | | | | | | | |
| | (5) Assume suitable data wherever required. | | | | | | | | |
| 1. Atte | empt A | All (I | Each of 5 Mark | | 1888 E | | | | |
| (a) | Mult | iple (| choice questions | | 2010 | | | | |
| | (1) and, or, not are | | | PAR BOYERS | operators. | | | | |
| | | (i) | Arithmetic | | (ii) | Logical | | | |
| | (| (iii) | Relational | | (iv) | Assignment | | | |
| | (2 |) ' | What is the out | put of len([1, 2, 3 |]) ? | | | | |
| | | (i) | 1 | | (ii) | 2.7.5.7.7 | | | |
| | (| (iii) | 3 | | (iv) | | | | |
| | (3 |) A | variable defin | ned inside the fur | ection | n is called | | | |
| | | | ariable. | | | | | | |
| | | (i) | Local | 25 75 10 10 E 6 85 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | (ii) | Global | | | |
| | | (iii) | Block | | (iv) | Identifier | | | |
| | × (4 |) | Vhich of the fol | lowing function c | onvei | rts a string to all uppercase? | | | |
| 3 | | (i) | upper () | 88 8 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | (ii) | isdecimal () | | | |
| 3/2/2/2 | O OF O | (iii) | Swapcase () | 1 | (iv) | title () | | | |
| DA DE T | (5 | | What is the outp | ut of the following | g ? | | | | |
| FOOD A | O TO | | The state of the s | i in my_string if i | | eiou"l | | | |
| | 2000 | 100 | YO YOUNG TIN | owels inmy_string | | 1 | | | |
| | 200 | (ii) | | onsonantsin my_st | | | | | |
| 1336 | 3330 | (iii) | | ecters of my_string | _ | aren't vowels | | | |
| SO A | 20 000 | (iv) | None of these | cois of my_sumg | and t | 21011 C 10 11 015 | | | |
| | STA P | 25 25 | Trong Of these | | | | | | |
| 25 A S 45 | 13 6T | 1/40 C | 1,05,05 ° 2, 0, 0 | | | | | | |

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| | (b) | Fill i | n the blanks. | | | | | | | |
|-------|---------------|--|--|-------|--|--|--|--|--|--|
| | | (1) | 0 &&, , ^ areoperators | | | | | | | |
| | | (2) | arithmetic operator (%) is used for | | | | | | | |
| | | (3)Statement terminates the loop statement and transfers | | | | | | | | |
| | | execution to the statement immediately following the loop. | | | | | | | | |
| | | (4) | To use sqrt () function we need to importmodule. | 10,10 | | | | | | |
| | | (5) | An instance of a class is called as | B | | | | | | |
| | | | | | | | | | | |
| (c) | (c) | Shor | t answers: | | | | | | | |
| | | (1) | What is the use of del statement? | | | | | | | |
| | | (2) | Define Assignment statement. | | | | | | | |
| | | (3) | Write syntax to create a List. | | | | | | | |
| | | (4) | List any four methods of List. | | | | | | | |
| | | (5) | Explain the use of "Pass" statement. | | | | | | | |
| | | | | | | | | | | |
| 2. | Ans | wer a | ny three from the following: (Each of 5Marks) | 15 | | | | | | |
| | | (a) | Write a short note on IDLE. | | | | | | | |
| | | (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: | | | | | | | |
| | | 3 | (i) Declaration and initialization of variable of "string" data type | | | | | | | |
| | | 50 | (ii) Displaying second character of astring. | | | | | | | |
| | | | (iii) Display all characters of astring. | | | | | | | |
| | B | 23° 9° V | (iv) Display all characters starting from second position in a string. | | | | | | | |
| | 500 | A CI CI | (v) Repeat string twice and display it. | | | | | | | |
| 105 | 200 | (f) | Write a program to calculate area of rectangle and circle. Take input from | | | | | | | |
| | NO TO | | the user. | | | | | | | |
| 200 | 100 C | YOU A | | | | | | | | |
| 3. | Ans | wer a | ny three from the following: (Each of 5Marks) | 15 | | | | | | |
| 20,00 | | (a) | How do we implement if-elif condition? explain with example. | | | | | | | |
| 2 / | 20 | (b) | Explain continue statement. | | | | | | | |
| | OF A | (c) | Discuss the difference between local and global variable. | | | | | | | |
| | | (d) | What is actual and formal parameter in user defined functions? | | | | | | | |
| S. C. | | (e) | Explain Tuples. How do we create Tuples? Explain with example. | | | | | | | |
| 3 | | (f) | Write a program to print the numbers divisible by 3 till n. Take n as input | | | | | | | |
| 200 | \$ 50 P | | from user. (Create user defined function). | | | | | | | |
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| 4. | Answer a | any three from the following: (Each of 5Marks) | 15 | | |
|----|--|---|--------|--|--|
| | (a) | What is the difference between user defined function and anonymous | | | |
| | | function? | | | |
| | (b) | Write a short note on List Comprehension. | | | |
| | (c) | Explain the following terms of Object Oriented Programming: | OF OF | | |
| | | (i) Class (ii) Methods | 2,0,01 | | |
| | (d) | Discuss the concept "Dictionary". | 9,9, | | |
| | (e) | Define Built-in functions. Explain any 4 built-in functions along with an | ye. | | |
| | 40 | example. | | | |
| | (f) | Write a program to create an anonymous function to calculate Cube of a | | | |
| | | number. | | | |
| 5. | Answer a | nny three from the following: (Each of 5Marks) | 15 | | |
| | (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. | | | |
| | | \$2.6.6.6.5.4.4.4.6.5.5.4.4.5.6.6.9.9. | | | |