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SARDAR PATEL UNIVERSITY
M.Sc. (Mathematics) Semester - III Examination
Saturday, 03rd November, 2018

PS03EMTH32, Computer Programming and Software

Time: 02:00 p.m. to 04:00 p.m.

Maximum marks: 35

- Note: (1) Figures to the right indicate marks of the respective question.
(2) Assume standard notations wherever applicable.

Q-1 Choose the correct option for each of the following.

[04]

- _____ is a valid identifier name.
(a) _007 (b) 007 (c) my-name (d) my name
- _____ operation is evaluated before ** (exponentiation).
(a) / (b) + (c) * (d) None of these
- Any _____ is a module.
(a) python program (c) operation
(b) string (d) variable
- The output of $a = 2; a* = 3; \text{print}(a)$ is _____.
(a) 2 (b) 3 (c) a (d) 6

[08]

Q-2 Attempt Any Four

- Write an example with two logical lines and one physical line. Specify which are the two logical lines in your example.
- What are the three different ways to specify a string?
- Define indentation and block in a Python program?
- What are keyword arguments? What is its advantage?
- State any two built-in Python functions with their use.
- Give an example to explain the use of 'from..import' statement.

Q-3 (a) Explain 'if' statement in detail with examples and describe how it works.

[06]

(b) Explain the following Python operations with examples.

[06]

- (i) // (ii) % (iii) >> (iv) & (v) <= (vi) and

OR

- i. Write a program to print all the integers between given two integers in a single horizontal line separate by a comma.
- ii. Write a program with output to explain the working of 'continue' statement.

[03]

[03]

Q-4 (a) Explain 'Functions' and 'Function Parameters' in Python with full details.

[06]

(b) Write a program to show an appropriate use of 'document strings'. Explain its working.

[05]

OR

(b) Write a program to explain in detail how a variable can be made 'global'.

[05]

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