



**Introduction to**

**Internet of Things**

**Assignment-Week 6**

TYPE OF QUESTION:MCQ/MSQ

Number of questions: **15**

**Total marks: 15 X 1= 15**

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**QUESTION 1:**

Python doesn't support strict rules for syntax and static variable declaration like C

- a. **True**
- b. False

**Correct Answer: a. True**

**Detailed Solution:** As per Python program. (Please refer to lecture INTRODUCTION TO PYTHON PROGRAMMING- I @ 4:23)

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**QUESTION 2:**

Fill in the blanks. \_\_\_\_\_ is a data-type in Python.

- a. List
- b. Tuple
- c. Dictionary
- d. **All of these**

**Correct Answer: d. All of these**

**Detailed Solution:** As per Python program. (Please refer to lecture INTRODUCTION TO PYTHON PROGRAMMING- I @ 15:18)

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**QUESTION 3:**

Fill in the blanks. \_\_\_\_\_ are the variables declared inside a function.

- a. Immediate variables
- b. Global variables
- c. Local variables
- d. None of these

**Correct Answer: c. Local variables**

**Detailed Solution:** As per Python program (Please refer to lecture INTRODUCTION TO PYTHON PROGRAMMING- I @ 25:41).

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**QUESTION 4:**

What does the open() function return for file operations?

- a. File mode
- b. File object
- c. File name
- d. None of these

**Correct Answer: b. File object**

**Detailed Solution:** As per the basics of Python programming. (Please refer to lecture INTRODUCTION TO PYTHON PROGRAMMING- II @ 3:00)

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**QUESTION 5:**

Python does not follow rigid indentation.

- a. True
- b. False

**Correct Answer: b. False**

**Detailed Solution:** As per the basics of Python programming. (Please refer to lecture INTRODUCTION TO PYTHON PROGRAMMING- I @ 8:18)

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**QUESTION 6:**

Which of the following is used to display an image in Python?

- a. `image.show()`
- b. `image.open()`
- c. `image.name()`
- d. `image.mode()`

**Correct Answer: a. `image.show()`**

**Detailed Solution:** As per the basics of Python programming. (Please refer to lecture INTRODUCTION TO PYTHON PROGRAMMING- II @ 18:26 )

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**QUESTION 7:**

Which of the following models does python follow for networking.

- a. **Client-server**
- b. P2P
- c. All of these
- d. None of these

**Correct Answer: a. Client-server**

**Detailed Solution:** In python programming, python provides network services for client-server models. (Please refer to lecture INTRODUCTION TO PYTHON PROGRAMMING- II @ 23:29 )

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**QUESTION 8:**

In python, "with" ensures the file is closed after the operation is completed, but not when an exception occurs.

- a. True
- b. **False**

**Correct Answer: b. False**

**Detailed Solution:** As per the basics of Python programming (Please refer to lecture INTRODUCTION TO PYTHON PROGRAMMING- II @4:58).

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**QUESTION 9:**

In Raspberry Pi, GPIO acts only as a digital output.

- a. True
- b. **False**

**Correct Answer: b. False**

**Detailed Solution:** Raspberry Pi GPIO acts as both digital output and digital input. (Please refer to lecture 28@10:14).

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**QUESTION 10:**

Which of the following exits the nano editor in the terminal?

- a. Ctrl+O
- b. **Ctrl+X**
- c. Ctrl+A
- d. None of these

**Correct Answer: b. Ctrl+X**

**Detailed Solution:** Ctrl+X exists the editor.  
See lecture 29 @ 10:25

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**QUESTION 11:**

Does Raspberry Pi provide configuration options for cameras ?

- a. **Yes**
- b. No

**Correct Answer: a. Yes**

**Detailed Solution:** Raspberry Camera can be configured using raspi-config. See lecture 29 @ 19:04

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**QUESTION 12:**

Does python provide a module for pi-camera ?

- a. Yes
- b. No

**Correct Answer: a. Yes**

**Detailed Solution:** Raspberry Camera can be configured using the Python camera module `python-picamera`. See lecture 29 @ 19:59.

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**QUESTION 13:**

Which of the following converts energy to motion?

- a. Actuator
- b. Raspberry Pi
- c. All of these
- d. None of these

**Correct Answer: a. Actuator**

**Detailed Solution:** Actuator converts energy to motion.  
See lecture 30 @ 03:37

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**QUESTION 14:**

Which of the following is a property of a Relay.

- a. Mechanical switch
- b. Electrochemical switch
- c. None of these
- d. All of these

**Correct Answer: d. All of these**

**Detailed Solution:** Relay is a mechanical/electrochemical switch . (Please refer to lecture 30@ 6:20)

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**QUESTION 15:**



**QUESTION 15:**

Sensors can be neither analog nor digital.

- a. True
- b. False

**Correct Answer: b. False**

**Detailed Solution:** Sensors can be analog or digital. (Please refer to lecture 30 @ 3:20)

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