

**PROGRAMMING LANGUAGE FOR EMBEDDED IOT SYSTEMS
(AEIE 5102)**

Time Allotted : 3 hrs

Full Marks : 70

Figures out of the right margin indicate full marks.

*Candidates are required to answer Group A and
any 5 (five) from Group B to E, taking at least one from each group.*

*Candidates are required to give answer in their own words as far as
practicable.*

**Group - A
(Multiple Choice Type Questions)**

1. Choose the correct alternative for the following: **10 × 1 = 10**
- (i) What is the CPU clock frequency of the Raspberry Pi 3 model B?
(a) 16MHz (b) 1KHz (c) 1GHz (d) 3 GHz.
 - (ii) What is the resolution of the ADC in the Raspberry Pi 3 model B?
(a) 16bit
(b) 128bit
(c) 10bit
(d) Raspberry Pi doesn't have an ADC.
 - (iii) The BCM2835 of Raspberry Pi is a processor of _____
(a) 8 bit (b) 10 bit (c) 32bit (d) 64 bit.
 - (iv)

```
>>> s = 'Hello World'
>>> print s[-2:]
```


The following output is seen at console for the above Python code:
(a) Hell
(b) Hello World
(c) ld
(d) TypeError: string slicing not allowed.
 - (v) The total number of digital I/O present in the NodeMCU board is?
(a) 8 (b) 18 (c) 13 (d) 9.
 - (vi) The applications for Android Things are mostly written in?
(a) Objective C (b) Java
(c) Kotlin (d) Both (b) and (c).

