

Nirdesh Tech Fest 2024
Yukti Kala Prelims Round

Annual Tech Fest of RKMVCC
Organised by Department of Computer Science, RKMVCC

Tick ✓ the correct answer in given circle. Each question carries 3 marks. There is negative marking of 1 for every wrong answer. No question has multiple correct answer.

1. The digit in the unit position of the integer $1! + 2! + 3! + 4! + \dots 99! + 100!$ is
☐ a. 1 ☐ b. 2 ☐ c. 3 ☐ d. 0
2. Alice and Bob speaks truth in 60% and 70% cases respectively. Find the probability that they contradict each other in a statement.
☐ a. 0.13 ☐ b. 0.46 ☐ c. 0.7 ☐ d. 0.48
3. Consider the following pseudo code:

```
function(n){  
    final = 0  
    i = 1  
    while n > 0:{  
        remain = n % 2  
        n = n / 2  
        final = final + (remain * 10)  
        i = i * 10  
    }  
    return final  
}
```

What is the value of function(49)??

- ☐ a. 100011 ☐ b. 110010 ☐ c. 101010 ☐ d. 110001