

**King Fahd University of Petroleum and Minerals**  
College of Computing and Mathematics  
Information and Computer Science Department  
**Term 211- ICS 104 - Section#3**  
Quiz #1, Monday September 20, 2021

Name: .....

ID#:.....

**You have exactly 15 minutes to solve the quiz.**

**Question 1: (4 points)**

**Select the correct answer**

**1. Byte codes are very simple instructions understood by:**

**a. Virtual machine**

c. Python compiler

b. Editor

d. Computer CPU

**2. Which of the following names are proper variable names?**

**a. Computer**

c. strange^1

**b. double**

d. class

**3. a variable whose value should not be changed after it has been assigned an initial value?**

a. Reserved Keywords

c. Built-in Functions

**b. Constants**

d. None of the above

**4. Which of the following lines of code will generate a syntax error?**

**a. print(ICS104)  
ICS104 = 2**

c. x = "ics104"  
print(x)

b. print("ICS104 = 3")  
ics104 = 4

d. print()  
len("ICS104")

Question 2: (6 points)

Compute the value of each of the following expressions:

Expression	Value
<code>print("Ahmad",len("Ali"))</code>	Ahmad 3
<code>487 % 100 // 10</code>	8
<code>17 // 10 / 10 - 5</code>	-4.9
<code>4 ** 2 // 2 ** 2</code>	4
<code>3 - 2 ** 2 % 3</code>	2
<code>round ( 11 / 2 )</code>	6

Question 3: (5 points)

Write the corresponding Python expression

Mathematical Expression	EXPRESSION
$\frac{ x^4 - y^5 }{2x + 3y}$	<code>abs(x**4 + y**5) / (2*x - 3*y)</code>
$\frac{1}{2}a - \sqrt{\frac{3}{5 + 2b}}$	<code>1/2 * a - sqrt(3 / (5 + 2*b ))</code>
$\frac{(x + y)^7}{z} + 52$	<code>( (x + y)**7 ) / z) +52</code>