


# General Assessment      التقييم العام

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\* Required

## Technical Questions

يتكون هذا الجزء من 30 سؤالاً متعدد الخيارات.

الرجاء الإجابة على كل الأسئلة أدناه بأفضل ما لديك. يمكنك إجراء بحث للإجابة عليها ، لكن لا تعمل مع أفراد آخرين. إذا قمت بذلك ، فقد يتم استبعادك ،

This part of the exam consists of 30 multiple choice questions.

Please answer ALL the questions below to the best of your ability. You may do research to answer them, but DO NOT work with other individuals. If you do, you may be disqualified.



Which of the following hardware can be alone used as an IoT Gateway? \*

- ☐ Arduino Uno
- ☐ Raspberry Pi
- ☐ ESP8266 NodeMCU
- ☒ Both (2) and (3)
- ☐ Both (1) and (2)

Which of the following is not a major RPA platform? \*

- ☐ Microsoft Power Automate
- ☐ UiPath
- ☐ Automation Anywhere
- ☒ My Virtual Assistant



Which is the main challenge of 5G? \*

- ☐ Security
- ☐ Speed
- ☒ Latency
- ☐ Usage

Which statement is incorrect about IoT? \*

- ☐ It is a network of interconnected devices.
- ☐ Device data can be transferred with the help of the Internet and it can be accessed anywhere with the help of cloud storage.
- ☐ IoT has four main components sensors/devices, connectivity, data processing, and user interface.
- ☒ IoT uses only simplex mode for communication.



What will users gain from 5G network slicing? \*

- ☐ The ability to set up multiple connection points to one 5G network
- ☒ The ability to create multiple virtual networks within a single 5G network
- ☐ The ability to designate multiple passwords for one 5G network
- ☐ The ability to utilize connections from other nearby networks

What kind of software is a Database Management System(DBMS)? \*

- ☐ Application Software
- ☐ System Software
- ☐ General Software
- ☒ Both (2) and (3)



In which frequency bands do 5G networks work? \*

- ☐ Low
- ☐ Medium
- ☐ High
- ☒ All of the above

What levels of complexity are there in RPA? \*

- ☐ None, Low, High
- ☒ Low, Medium, High
- ☐ Easy, Medium, Hard
- ☐ Green, Yellow, Red



Which of the following is NOT a possible task in RPA? \*

- ☐ Rule Based
- ☒ Reading Human Signature
- ☐ Chat bot
- ☐ Repetitive

Where can RPA be used? \*

- ☐ Front Office
- ☐ Back Office
- ☒ Both Front & Back Office
- ☐ None of the above



Which devices have the ability to accept, process, and transmit data over a network? \*

- ☐ Data Acquisition System(DAS)
- ☒ Network Gateways
- ☐ Edge Analytics Device
- ☐ Sensors

Which of the following are automation technologies? \*

- ☒ Selenium
- ☐ Macros
- ☐ QTP/AutoIT
- ☐ All of the above



Which entity developed 5G technology? \*

- ☒ 3GPP's
- ☐ Google
- ☐ Amazon
- ☐ IBM

Which of the following is considered a type of bot? \*

- ☐ Chat Bot
- ☐ Meta Bot
- ☐ Unattended Bot
- ☒ All of the above





\_\_\_\_\_ & \_\_\_\_\_ are types of Automations \*

- ☐ Java & Python
- ☒ Attended & Unattended
- ☐ Semi-Structured & Unstructured
- ☐ Windows & Mac

What will be the output of the following code? \*

```
listA = [10, 15, 20, 25,30]  
listB = [10,15, 20, 25, 30]
```

```
print(listA == listB)  
print(listA is listB)
```

- ☐ False and False
- ☐ False and True
- ☒ True and True
- ☐ True and False



Which of the following options are disadvantages of 5G? \*

- ☐ Battery drain on devices
- ☒ Initial costs for rollout are high
- ☐ Both A and B
- ☐ None of the above

What are the different transmission modes of the network? \*

- ☐ Wired and Wireless
- ☐ Synchronous and Asynchronous
- ☒ Simplex, Half Duplex, and Full Duplex
- ☐ Wi-Fi and LTE



What is the fifth generation technology standard intended for? \*

- ☐ Laptops
- ☐ Televisions
- ☒ Broadband Cellular Networks
- ☐ None of above

How spectrum efficiency is measured? \*

- ☐ How many users can connect to one network?
- ☐ How many connections can run securely at once?
- ☐ How many bits of data can be transmitted to a certain number of users per second?
- ☒ All of the above



The SQL WHERE clause: \*

- ☐ limits the column data that are returned
- ☒ limits the row data are returned.
- ☐ Both A and B are correct
- ☐ Neither A nor B are correct

Which protocol is used to connect onboard components of an embedded system? \*

- ☒ I2C
- ☐ Bluetooth
- ☐ RS232
- ☐ TCP/IP



Which of the following is not a transportation segment of the 5G network? \*

- ☐ Access Backhaul
- ☐ Regional Core
- ☐ Backbone Core
- ☒ Sidehaul Edge

What is the output of the program given below? \*

```
def calculate (num1, num2=3):  
    res = num1 * num2  
    print(res)  
calculate(4, 5)
```

- ☐ 12
- ☒ 20
- ☐ Syntax Error
- ☐ Runtime Error



Which of the following is used in LPWAN technologies? \*

- ☐ GSM
- ☐ CDMA
- ☐ LTE
- ☒ LoRA

What capabilities CANNOT be met by today's (R15) 5G network? \*

- ☐ 1 Mbps Peak, 10 ms latency, 99% Service availability
- ☐ 20 ms latency, \$10 Unit Cost , 1 year battery
- ☐ 1 Mbps Peak, 20 ms latency, 99% reliability
- ☒ 1 Mbps Peak, 1 ms latency, 99.9999% reliability



What of the following is NOT a common data format used in RPA? \*

- ☐ PDF
- ☒ APK
- ☐ CSV
- ☐ TXT

Which of the following are OOP concepts? \*

- ☐ Abstraction
- ☐ Encapsulation
- ☐ Inheritance
- ☒ All of the above



Which of the following databases is recommended for unstructured data for IoT applications? \*

- ☐ Postgres SQL
- ☐ Mongo DB
- ☐ Microsoft SQL
- ☒ None of the above

Which of the following options is considered a drawback of 5G? \*

- ☐ The range of 5G connectivity is not great
- ☐ Latency is too high
- ☒ Capacity is not enough
- ☐ Speed is very low

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