



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, July 2020**

**Course: IoT Applications: Raspberry Pi & Arduino**  
**Program: B.Tech-CS-IOT&SC**  
**Course Code: CSIS3003**

**Semester: VI**  
**Time**  
**Max. Marks:**

This Test has 68 attempts. For information on editing questions, click **More Help** below. ✕

## Test Canvas: CSIS3003 - Designing of IOT Applications : Raspberry Pi & Arduino

*The Test Canvas lets you add, edit and reorder questions, as well as review a test. [More Help](#)*

Question Settings

You can edit, delete or change the point values of test questions on this page. If necessary, test attempts will be regraded after you submit your changes.

**Description**

All question are compulsory.  
Each question carry equal marks.  
Backtracking is prohibited.  
Multiple attempts not allowed.  
time duration is 2hours

**Instructions**

All question are compulsory.  
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Total Questions 59

Total Points 59

Number of Attempts 68

← OK

Select: All None Select by Type: - Question Type -

Delete and Regrade

Points

Update and Regrade

Hide Question Details

 1. Multiple Choice: Which protocol is lightweight?

Points: 1

<b>Question</b>	Which protocol is lightweight?
<b>Answer</b>	HTTP
	<input checked="" type="checkbox"/> MQTT
	CoAP
	SPI

 2. Multiple Choice: IoT promotes the creation of IoT term...

Points: 1

<b>Question</b>	IoT promotes the creation of IoT terminal industry _____
<b>Answer</b>	Network
	Devices
	<input checked="" type="checkbox"/> Clusters
	Things

 3. Multiple Choice: What is the microcontroller used in A...

Points: 1

<b>Question</b>	What is the microcontroller used in Arduino UNO?
<b>Answer</b>	ATmega2560
	ATmega32114
	AT91SAM3x8E
	<input checked="" type="checkbox"/> ATmega328p

 4. Multiple Choice: A program written with the IDE for Ar...

Points: 1

<b>Question</b>	A program written with the IDE for Arduino is called _____
<b>Answer</b>	<p>Cryptography</p> <hr/> <p><input checked="" type="checkbox"/> Sketch</p> <hr/> <p>IDE source</p> <hr/> <p>Source code</p>

**5. Multiple Choice: Arduino IDE consists of 2 functions. ...**

Points: **1**

<b>Question</b>	Arduino IDE consists of 2 functions. What are they?
<b>Answer</b>	<p><input checked="" type="checkbox"/> Setup() and loop()</p> <hr/> <p>Loop() and build() and setup()</p> <hr/> <p>Setup() and build()</p> <hr/> <p>Build() and loop()</p>

**6. Multiple Choice: How many digital pins are there on th...**

Points: **1**

<b>Question</b>	How many digital pins are there on the UNO board?
<b>Answer</b>	<p>12</p> <hr/> <p><input checked="" type="checkbox"/> 14</p> <hr/> <p>20</p> <hr/> <p>5</p>

**7. Multiple Choice: Which sensor measures the pressure re...**

Points: **1**

<b>Question</b>	Which sensor measures the pressure relative to perfect vacuum?
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<b>Answer</b>	Vacuum pressure sensor
	Gauge pressure sensor
<input checked="" type="checkbox"/>	Absolute pressure sensor
	Differential pressure sensor



Points: 1

**8. Multiple Choice: Barometer is which type of sensor\_\_\_\_\_...**

<b>Question</b>	Barometer is which type of sensor_____
<b>Answer</b>	Touch sensor
<input checked="" type="checkbox"/>	Pressure sensor
	Temperature sensor
	Humidity sensor

 **9. Multiple Choice:\_\_\_\_\_sensor is used for tracking ...**

Points: 1

<b>Question</b>	_____sensor is used for tracking rotation or twist.
<b>Answer</b>	Proximity
	Pressure
<input checked="" type="checkbox"/>	Gyroscope
	Temperature



Points: 1

**10. Multiple Choice: How many pins does temperature sensor...**

<b>Question</b>	How many pins does temperature sensor have?
<b>Answer</b>	4 legs
<input checked="" type="checkbox"/>	3 legs

5 legs

legs



**11. Multiple Choice: Which type of temperature sensor is p...**

Points: **1**

<b>Question</b>	Which type of temperature sensor is placed in Integrated Circuits?
<b>Answer</b>	<p>Thermocouple</p> <p>Resistance Thermometer</p> <p>Thermistor</p> <p><input checked="" type="checkbox"/> Semiconductor based sensor</p>



**12. Multiple Choice: Units for Absolute Humidity is \_\_\_\_\_**

Points: **1**

<b>Question</b>	Units for Absolute Humidity is _____
<b>Answer</b>	<p>%</p> <p>PPMV</p> <p><input checked="" type="checkbox"/> grams/m3</p> <p>% by volume</p>



**13. Multiple Choice: Relative humidity is a function of\_\_\_\_\_**

Points: **1**

<b>Question</b>	Relative humidity is a function of _____
<b>Answer</b>	<p>Water vapor pressure</p> <p>Ambient temperature</p> <p>Dryness</p> <p><input checked="" type="checkbox"/> Ambient temperature and Water vapor pressure</p>



Points: 1

**14. Multiple Choice: Capacitive RH sensors dominate**

\_\_\_\_\_...

<b>Question</b>	Capacitive RH sensors dominate_____measurements.
<b>Answer</b>	Atmospheric
	Process
	<input checked="" type="checkbox"/> Both atmospheric and process
	Neither atmospheric nor process



Points: 1

**15. Multiple Choice: Which instruction set architecture is...**

<b>Question</b>	Which instruction set architecture is used in Raspberry Pi?
<b>Answer</b>	X86
	<input checked="" type="checkbox"/> ARM
	AVR
	MSP



Points: 1

**16. Multiple Choice: What is the command used for easy**  
**usi...**

<b>Question</b>	What is the command used for easy using of GNU screen with Raspberry Pi?
<b>Answer</b>	Prompt> # help
	<input checked="" type="checkbox"/> Screen Port_Name115200
	\$useradd -G {dialout} your_name
	Minicom -b 115200 -o -D Port_Name



Points: 1

**17. Multiple Choice: \_\_\_\_\_ pin can be used to extend mem...**

<b>Question</b>	_____ pin can be used to extend memory access in whole cycle increments.
<b>Answer</b>	<input type="radio"/> BCLK
	<input type="radio"/> BTRAN
	<input checked="" type="radio"/> BWAIT
	<input type="radio"/> BLOK

**18. Multiple Choice: ARM stands for \_\_\_\_\_**

Points: **1**

<b>Question</b>	ARM stands for _____
<b>Answer</b>	<input checked="" type="radio"/> Advanced RISC Machine
	<input type="radio"/> Advanced RISC Methodology
	<input type="radio"/> Advanced Reduced Machine
	<input type="radio"/> Advanced Reduced Methodology

**19. Multiple Choice: Reset work is \_\_\_\_\_**

Points: **1**

<b>Question</b>	Reset work is _____
<b>Answer</b>	<input type="radio"/> Program counter not zero but values in registers values remain same
	<input checked="" type="radio"/> To make program counter zero but values in registers values remain same
	<input type="radio"/> Program counter is not zero but values in registers values are made asZero
	<input type="radio"/> To make program counter zero but values in registers values are made as zero

**20. Multiple Choice: Name the architecture and the instruc...**

Points: **1**

<b>Question</b>	Name the architecture and the instruction set for microcontroller?
-----------------	--

<b>Answer</b>	Harvard Architecture with RISC Instruction Set
	Van- Neumann Architecture with RISC Instruction Set
<input checked="" type="checkbox"/>	Harvard Architecture with CISC Instruction Set
	Van- Neumann Architecture with CISC Instruction Set

**21. Multiple Choice: What is the default bootloader of the...**

Points: **1**

<b>Question</b>	What is the default bootloader of the Arduino UNO?
<b>Answer</b>	AIR-boot
	Bare-box
<input checked="" type="checkbox"/>	Optiboot bootloader
	GAG

**22. Multiple Choice: A function is a series of programming...**

Points: **1**

<b>Question</b>	A function is a series of programming statements that can be called by name. Which command is called repetitively over and over again as long as the Arduino has power.
<b>Answer</b>	(input)
	(output)
<input checked="" type="checkbox"/>	loop()
	setup()

**23. Multiple Choice: Standard port number for secure MQTT is:**

Points: **1**

<b>Question</b>	Standard port number for secure MQTT is:
-----------------	--



<b>Answer</b>	8888
	1883
	8000
	<input checked="" type="checkbox"/> 8883

**24. Multiple Choice: Terms SSL and TLS stand for:**

Points: **1**

<b>Question</b>	Terms SSL and TLS stand for:
<b>Answer</b>	<input checked="" type="checkbox"/> Secure Socket Layers and Transport Layer Security
	Secure Socket Layers and Transport Layer Session
	Secure Socket Layout and Transport Level Session
	Session Socket Layers and Transport Layer Session

**25. Multiple Choice: What is the use of Ping command:**

Points: **1**

<b>Question</b>	What is the use of Ping command:
<b>Answer</b>	To know network speed
	<input checked="" type="checkbox"/> To test a host on the network is reachable
	To test storage device
	None of the above

**26. Multiple Choice: PWM stands for:**

Points: **1**

<b>Question</b>	PWM stands for:
<b>Answer</b>	<input type="checkbox"/> Pulse Width Modulation <input type="checkbox"/> Pulse Width Mode <input type="checkbox"/> Pulse With Modulation <input checked="" type="checkbox"/> None of the above

**27. Multiple Choice: MQTT is:**

Points: **1**

<b>Question</b>	MQTT is:
<b>Answer</b>	<input checked="" type="checkbox"/> Based on publish-subscribe architecture <input type="checkbox"/> Based on client-server architecture <input type="checkbox"/> Based on both of the above <input type="checkbox"/> Based on none of the above

**28. Multiple Choice: What is the default user in Debain on...**

Points: **1**

<b>Question</b>	What is the default user in Debain on Raspberry Pi?
<b>Answer</b>	<input type="checkbox"/> Default <input checked="" type="checkbox"/> Pi <input type="checkbox"/> Root <input type="checkbox"/> User

**29. Multiple Choice: What are the distributions are suppor...**

Points: **1**

<b>Question</b>	What are the distributions are supported by raspberry Pi?
<b>Answer</b>	<input type="checkbox"/> Debain <input type="checkbox"/> Arch Linux



"Arch Linux, Debain, and Fedora Remix"

Fedora Remix

30. Multiple Choice: Global Sensor Network is built for \_\_ ...

Points: 1

<b>Question</b>	Global Sensor Network is built for _____
<b>Answer</b>	Reducing cost and increasing time for development
	<input checked="" type="checkbox"/> Reducing cost and time for development
	Increasing cost and increasing time for development
	Increasing cost and decreasing time for development

31. Multiple Choice: "The huge number of devices connected...

Points: 1

<b>Question</b>	"The huge number of devices connected to the Internet of Things has to communicate automatically, not via humans. What is this called?"
<b>Answer</b>	Skynet
	Bot 2 Bot
	<input checked="" type="checkbox"/> Machine 2 Machine
	Intercloud

32. Multiple Choice: Internet of Things needs a lot of net...

Points: 1

<b>Question</b>	Internet of Things needs a lot of network connection. What is the proposed white Space radio standard called?
<b>Answer</b>	Zigbee
	Bluetooth
	WiMax

Weightless

- 33. Multiple Choice: What is the sensor/protocol used in GSN?**

Points: **1**

<b>Question</b>	What is the sensor/protocol used in GSN?
<b>Answer</b>	<input type="checkbox"/> XMPP Protocol
	<input checked="" type="checkbox"/> CoAP protocol
	<input type="checkbox"/> HTTP Protocol
	<input type="checkbox"/> MQTT Protocol

- 34. True / False: Open IoT ontology is extending the W3...**

Points: **1**

<b>Question</b>	Open IoT ontology is extending the W3C SSN ontology which supports the description of the physical and processing structure of sensors.
<b>Answer</b>	<input checked="" type="checkbox"/> True
	<input type="checkbox"/> False

- 35. Multiple Choice: "Open IoT manages the registration, d...**

Points: **1**

<b>Question</b>	"Open IoT manages the registration, data acquisition, deployment of sensors and interconnected of objects, through which network?"
<b>Answer</b>	<input type="checkbox"/> LSM
	<input checked="" type="checkbox"/> X-GSN
	<input type="checkbox"/> GSN
	<input type="checkbox"/> HTTP

- 36. Multiple Choice: \_\_\_\_\_ is a community that is wo...**

Points: **1**

<b>Question</b>	_____ is a community that is working together to establish an IoT architecture.
<b>Answer</b>	Bot 2 Bot
	Intercloud
	<input checked="" type="checkbox"/> Eclipse IoT
	Red Hat

37. Multiple Choice: \_\_\_\_\_ is a modular and cloud base...

Points: 1

<b>Question</b>	_____ is a modular and cloud based platform
<b>Answer</b>	Intercloud
	<input checked="" type="checkbox"/> Eclipse Kapua
	Red Hat
	Eclipse Kura

38. True / False: The use of RFID in product logistics ...

Points: 1

<b>Question</b>	The use of RFID in product logistics may realize automatic acquisition of logistics information.
<b>Answer</b>	True
	<input checked="" type="checkbox"/> False

39. Multiple Choice: An IoT \_\_\_\_\_ center is envisaged a...

Points: 1

<b>Question</b>	An IoT _____ center is envisaged as an important part of the generic IoT platform to unify the organization.
<b>Answer</b>	Individual and Integrated Information
	Individual Information
	Individual Integration

Integrated Information

**40. Multiple Choice: The core element of architecture of s...**

Points: **1**

<b>Question</b>	The core element of architecture of smart city is _____
<b>Answer</b>	<input checked="" type="checkbox"/> Integrated Information Provider
	<input type="checkbox"/> Management center
	<input type="checkbox"/> Urban Application Platform
	<input type="checkbox"/> Mobile Unified Service

**41. Multiple Choice: The core element is operated by \_\_\_\_\_**

Points: **1**

<b>Question</b>	The core element is operated by _____
<b>Answer</b>	<input type="checkbox"/> IaaS
	<input type="checkbox"/> SaaS
	<input checked="" type="checkbox"/> IoT Service Provider
	<input type="checkbox"/> PaaS

**42. Multiple Choice: What is the use of Thermostat in Nest...**

Points: **1**

<b>Question</b>	What is the use of Thermostat in Nest Thermostat E?
<b>Answer</b>	<input type="checkbox"/> Won't work at some conditions
	<input type="checkbox"/> Supports in some devices only
	<input type="checkbox"/> Show the use of energy
	<input checked="" type="checkbox"/> Save energy

43. True / False: Does HomePod allow voice controlling?

Points: 1

Question	Does HomePod allow voice controlling?
Answer	True
	<input checked="" type="checkbox"/> False

44. Multiple Choice: What are Revolv means?

Points: 1

Question	What are Revolv means?
Answer	A simple robot
	<input checked="" type="checkbox"/> Bringing all devices under a single command
	Movement of device
	In built programming of all devices

45. Multiple Choice: ENOB stands for\_\_\_\_\_

Points: 1

Question	ENOB stands for_____
Answer	Effective no of bytes
	<input checked="" type="checkbox"/> Effective no of bits
	Efficient no of bits
	Efficient no of bytes

46. Multiple Choice: Clock jitters is caused by \_\_\_\_\_

Points: 1

Question	Clock jitters is caused by _____
Answer	Sampling rate
	Spectrum
	<input checked="" type="checkbox"/> Phase noise
	Sampling frequency



Points: 1

**47. Multiple Choice: The analog signal is \_\_\_\_\_ in \_\_\_\_\_.**

<b>Question</b>	The analog signal is _____ in _____
<b>Answer</b>	<input checked="" type="checkbox"/> "Continuous, time"
	<input type="checkbox"/> "Continuous, frequency"
	<input type="checkbox"/> "Discrete, frequency"
	<input type="checkbox"/> "Discrete, time"



Points: 1

**48. Multiple Choice: Which touchscreen is coated with a tr...**

<b>Question</b>	Which touchscreen is coated with a transparent material?
<b>Answer</b>	<input type="checkbox"/> Capacitive touchscreen
	<input checked="" type="checkbox"/> Resistive touchscreen
	<input type="checkbox"/> Infrared
	<input type="checkbox"/> Capacitive touchscreen



Points: 1

**49. Multiple Choice: \_\_\_\_\_ is the brainchild of ARM.**

<b>Question</b>	_____ is the brainchild of ARM.
<b>Answer</b>	<input type="checkbox"/> WiFi
	<input type="checkbox"/> Bluetooth
	<input checked="" type="checkbox"/> Thread
	<input type="checkbox"/> Zigbee



Points: 1

**50. Multiple Choice: Which is the core wrapper of GSN?**

<b>Question</b>	Which is the core wrapper of GSN?
-----------------	-----------------------------------



<b>Answer</b>	GPSTest
	UDP
<input checked="" type="checkbox"/>	ZeroMQWrapper
	Serial

**51. Multiple Choice: \_\_\_\_\_ Provide the means to create ...**

Points: **1**

<b>Question</b>	_____ Provide the means to create capability that reflects true awareness of the physical world and people.
<b>Answer</b>	Connectivity
	Security
<input checked="" type="checkbox"/>	Sensors
	Heterogeneity

**52. Multiple Choice: To check whether the command line uti...**

Points: **1**

<b>Question</b>	To check whether the command line utility can establish proper communication the command is _____
<b>Answer</b>	admin-iotkit test
	iotkit admin test
<input checked="" type="checkbox"/>	iotkit-admin test
	admin iotkit test

**53. Multiple Choice: Command line to obtain the device Id?**

Points: **1**

<b>Question</b>	Command line to obtain the device Id?
-----------------	---------------------------------------

<b>Answer</b>	lotkit admin device id
	lotkit admin device-id
	iotkit-admin deviceid
<input checked="" type="checkbox"/>	iotkit-admin device-id

**54. Multiple Choice: Command to change the device Id?**

Points: **1**

<b>Question</b>	Command to change the device Id?
<b>Answer</b>	iotkit-admin set-device-id new-device-id
	iotkit admin set device id new device id
	iotkit-admin setdevice-id newdevice-id
<input checked="" type="checkbox"/>	iotkit-admin set-device-id new-device-id

**55. True / False: Do new device ID should be a globally...**

Points: **1**

<b>Question</b>	Do new device ID should be a globally unique identifier.
<b>Answer</b>	True
<input checked="" type="checkbox"/>	False

**56. Multiple Choice: What do we use to connect TV to RPi?**

Points: **1**

<b>Question</b>	What do we use to connect TV to RPi?
<b>Answer</b>	Female HDMI and Adapter
	Female HDMI
	Male HDMI
<input checked="" type="checkbox"/>	Male HDMI and Adapter

**57. Multiple Choice: How power supply is done to RPi?**

Points: **1**

<b>Question</b>	How power supply is done to RPi?
-----------------	----------------------------------

<b>Answer</b>	Adapter
	Charger
	Internal battery
	<input checked="" type="checkbox"/> USB connection



Points: **1**

**58. Multiple Choice: What is the command used for easy usi...**

<b>Question</b>	What is the command used for easy using of GNU screen?
<b>Answer</b>	\$useradd -G {dialout} your_name
	<input checked="" type="checkbox"/> Screen Port_Name115200
	Minicom -b 115200 -o -D Port_Name
	Prompt> # help



Points: **1**

**59. Multiple Choice: What is the speed of operation in Pi 3?**

<b>Question</b>	What is the speed of operation in Pi 3?
<b>Answer</b>	500MHz
	1GHz
	900MHz
	<input checked="" type="checkbox"/> 1.2GHz

Select: [All](#) [None](#) | Select by Type: - Question Type -

Delete and Regrade

Points

Update and Regrade

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