IAT-3 Question_paper and solution

✓ The equation representing the IBM IoT frame work is:	/ 1
Gateway+(Connect+Collect+Assemble+Manage) and Analyse = Internet of Things	
Gather+Consolidate+(Connect+Collect+Assemble+Manage) and Analyse = Internet of Things	~
Physical object+Internet+Manage+tore+Analyse = Internet of Things	
Gateway+(Connect+Database+Organize+Analyse) = Internet of Things	
Add individual feedback	
✓ The ITU-T reference model proposes (i) four layers (ii) lowest layer as device layer has device and gateway capabilities (iii) next layer to the device layer has transport and network capabilities (iv)next layer is the services and application support layer and (v) and the top most layer is Application layer	/ 1
(i) is incorrect	
(ii) to (v) are layers in the model and (i) is true.	~
only (i) is true	
(ii) and (v) are in correct	
Add individual feedback	

✓ What is Geographic routing	/1
Routing done on the basis of density of nodes	
Routing done on the basis of physical position of nodes	~
Routing done on the basis of data contents of nodes	
Routing done on the basis of distances between the node	
Add individual feedback	
✓ What is the microcontroller used in Arduino UNO?	_1/1
✓ What is the microcontroller used in Arduino UNO?	_1/1
-	_1/1
ATmega328p	/1
ATmega328p ATmega2560	_1/1

~	Connectivity interface and Edge computing is part of which M2M domain?	_1	_ / 1
0	M2M application Domain		
0	M2M Network Domain		
0	M2M device Domain		~
0	None of the above		
Add	l individual feedback		
Add	Find the incorrect statement	_1	_ / 1
Add		_1	_ / 1
Add	Find the incorrect statement	1	_ / 1
Add	Find the incorrect statement Protocol is proactive or table-driven if it keep the exact information in the routing tables	1	_ / 1

	Which is the software or a programming language used for controlling of Arduino?	1	_ / 1
	Arduno:		
\circ	Assembly Language		
\circ	C Languages		
\circ	JAVA		
0	Any Language		~
Addi	ndividual feedback		
Addi	ndividual reedback		
	In modified OSI model for IoT presentation and seeign layer is combined and		/ 1
	In modified OSI model for IoT presentation and seeion layer is combined and known as	_1	_ / 1
		_ 1	_ / 1
		_1	_ / 1
	known as	_1	_ / 1
	Nown as Data Adaptation layer	1	/1

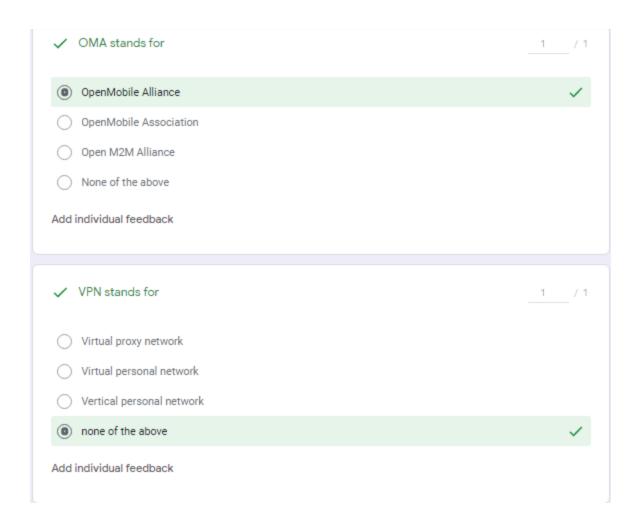
Manage+Acquire+Organise and Analyse happens at which layer in modified OSI model for IoT	_ / 1
O Data Adaptation	
Network Layer	
Application Support layer	~
○ Transport Layer	
Add individual feedback	
✓ Stream is associated with which layer in modified OSI model for IoT 1	_ / 1
Transport Layer	~
Application Support layer	
Network Layer	
O Data Adaptation	
Add individual feedback	

✓ Gather and Enrich is associated with which layer in modified OSI model for IoT	/1
Physical cum Data-link Layer and Data Adaptation layer	✓
Network Layer	
Application Support layer	
○ Transport Layer	
Add individual feedback	
✓ The full form of GPSR is:	_1/1
Greedy Perimeter State Routing for Wireless Networks	
Greedy Perimeter Stateless Routing for Wireless Networks	✓
Greedy Perimeter Stateless Routing	
Greedy Perimeter Stateless Routing for Networks	
Add individual feedback	

In ITU-T reference model Data Adaptation and Physical cum Data Link Layer is combine and named as	_1/1
Device Layer	~
Network Layer	
Application support layer	
Application Layer	
Add individual feedback	
✓ Data Adaptation, conversion and change of protocol, format or code using software is known as	_1/1
	_1/1
software is known as	_1/1
software is known as Transcoding	_1/1
software is known as Transcoding Privacy	_1/1

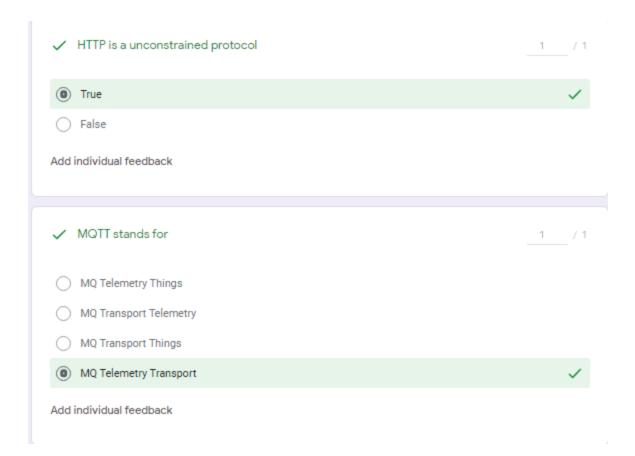
✓ Cluster head is the node which is	/1
Have the highest energy	~
Near to destination node	
A gateway	
Can pass the data effectively	
Add individual feedback	
 Polling, Event based gathering, scheduled interval, continuous monitoring are different techniques of 	/ 1
	/1
different techniques of	/ 1
different techniques of Data dissemination	/ 1
different techniques of Data dissemination Data handling	/1

~	Data aggregation refers to the process of joining together present and previously received data frames after removing redundant or duplicate data	1	_ / 1
0	True		~
\circ	False		
Add	individual feedback		
~	A Device Management provisions for	1	_ / 1
0	provide a unique device ID		
\circ	Device activating and deactivating		
\circ	Device configuration		
0	all of the above		~
Add	individual feedback		



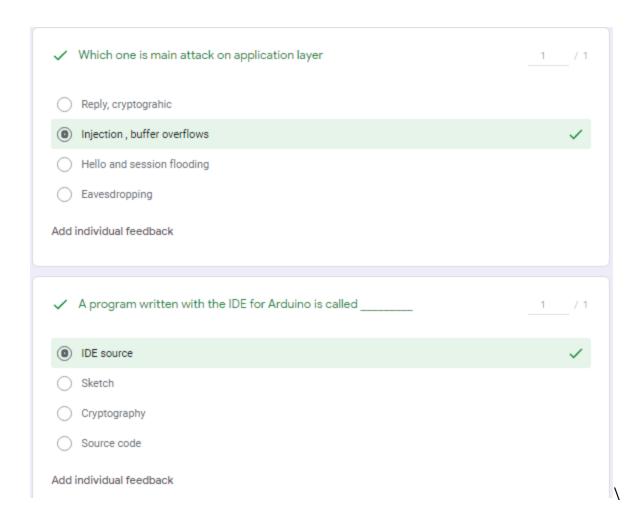
 ✓ Suggested privacy model depends on the following components (i) trust (ii) device and application identities management (iii) authentication (iv) Authorization and (v) reputation ☐ All except (vi) are true ☐ All except (ii) are true 	1 / 1
All except (i) are true	
all are true	~
Add individual feedback	
✓ Data enrichment before the data disseminates to the network means (i)aggregation (ii)compaction (iii)fusion (iv)adjusting data rate within the permitted limit,(v)communication as per protocol standards,(vi)formatting as per protocol specifications	1 / 1
(i)aggregation (ii)compaction (iii)fusion (iv)adjusting data rate within the permitted limit,(v)communication as per protocol standards,(vi)formatting as per	1 / 1
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(i)aggregation (ii)compaction (iii)fusion (iv)adjusting data rate within the permitted limit,(v)communication as per protocol standards,(vi)formatting as per protocol specifications all are true	/1

✓ REST stands for	/ 1
Repository state transfer	
Representational State Transfer	~
Rest State Transfer	
None of the above	
Add individual feedback	
✓ Short form for Routing over Low power and Loss is	_1/1
✓ Short form for Routing over Low power and Loss is ■ ROLL	_1/1
	_1/1
® ROLL	_1/1

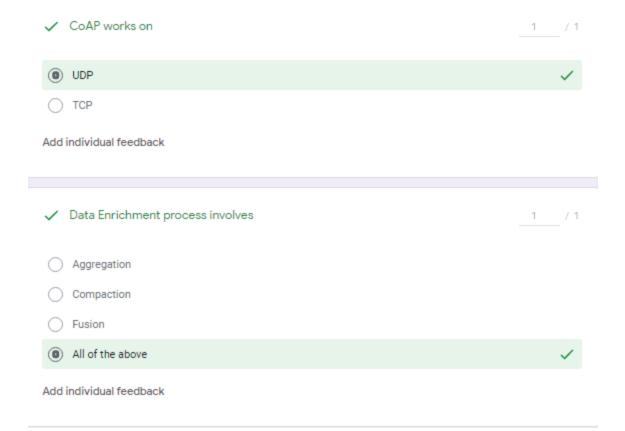


✓ MQTT is protocol	_ 1 / 1
Machine to Machine	
Internet of Things	
Machine to Machine and Internet of Things	~
○ Machine Things	
Add individual feedback	
✓ For MQTT, which statement is correct	_1/1
✓ For MQTT, which statement is correct ○ Publishers publish the data to broker	_1/1
	/1
Publishers publish the data to broker	/1
Publishers publish the data to broker Subscriber subscribes to broker using title	_1/1

✓ XMPP Full form is	/1
Extensible Messaging and Presence Protocol	✓
Extensible Module and presence protocol	
Extensible Messaging Presence Protocol	
Extensible Message and Presence Protocol	
Add individual feedback	
✓ CoAP is a specialized protocol.	/1
Web Transfer	✓
OPower	
Application	
Resource	
Add individual feedback	

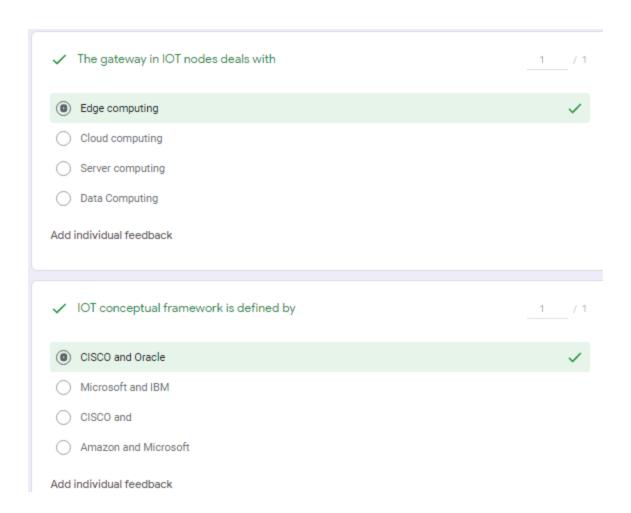


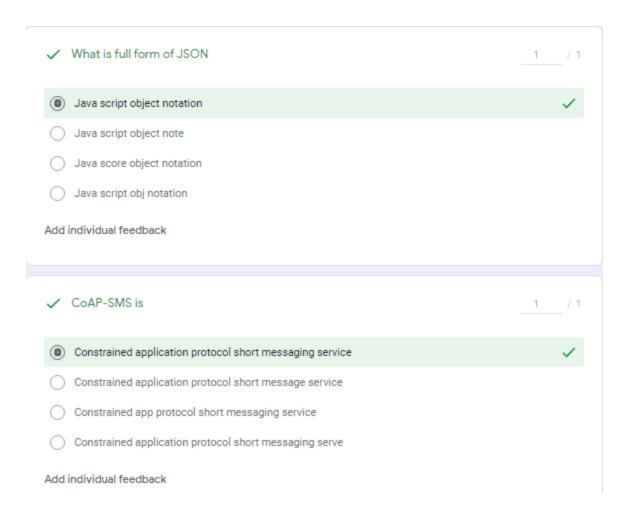
✓ What is full form of TRAMA protocol	/ 1
Traffic Adaptive Medium Access Control Protocol	
Traffic Adaptive Media Access Control Protocol	~
Traffic Adapt Media Access Control Protocol	
Traffic Adaptive Media Access Protocol	
Add individual feedback	
✓ LWM2M is	_1/1
 ✓ LWM2M is Less weight machine to machine protocol Low weight machine to machine protocol 	_1/1
Less weight machine to machine protocol	_1/1
Less weight machine to machine protocol Low weight machine to machine protocol	/1



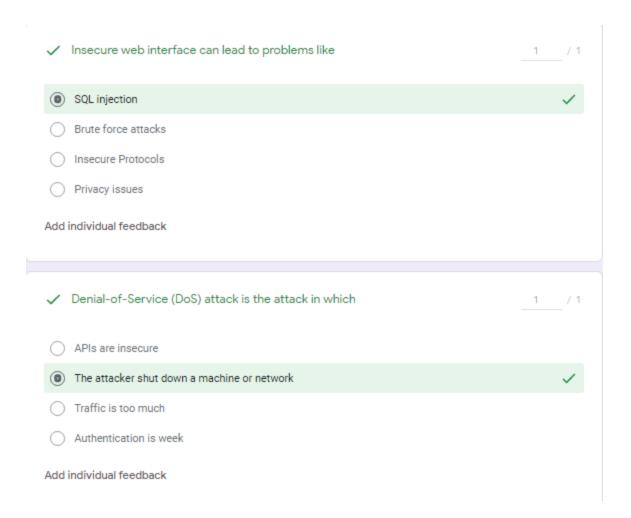
✓ Sink hole attack occurs at which layer	1	_ / 1
Application layer		
Network layer		~
O Data link layer		
Cloud		
Add individual feedback		
✓ Arduino IDE consists of 2 functions. What are they?	_ 1	_ / 1
Build() and loop()		
Setup() and build()		
Setup() and loop()		✓
Loop() and build() and setup()		
Add individual feedback		

~	A smart home consists of	1	_ / 1
C) Sensor networks		
\subset	Communication network infrastructure		
\subset) Intelligent control and management		
0) All the above		~
Add	d individual feedback		
~	How many digital pins are there on the UNO board?	1	_ / 1
0) 14		~
\subset) 12		
\subset) 16		
C) 16) 20		





✓ What are the message communication protocols for connected devices:	1	_ / 1
○ CoAP-SMS		
○ CoAP-MQ		
○ MQTT		
○ XMPP		
All of the above		~
Add individual feedback		
✓ What are the vulnerabilities in IoT	_1	_ / 1
Insecure web interface		
Insecure network services		
Ineffective authentication/authorization		
Insecure device physical interface		
All of the above		~



✓ Which is not the security requirement / 1
O Identity management
Authentication and Authorization
Brute force attack
Key exchange and management
Add individual feedback
✓ What is tempering / 1
The plain text are stored without using any encryption protocol.
The act of deliberately modifying (destroying, manipulating or editing) data through unauthorized channels
The group network congestion attacks
A kind of false routing
Add individual feedback