SYBCA SEM-4

402-IOT (Internet of Things)

Unit: 3 Sensors and Actuators in IoT

				I	
No	Questions	Α	В	С	D
			Electrical,	Hydraulic,	
		Mechanical	thermal	pneumatic	
1	are the types of actuators	actuators	actuators	actuators	All of the above
	enables production-ready				
2		a) Actuators	b) Endpoint	c) Boot	d) Hyper media
	Analog sensors generate				
3	analog kind of output signals.	Discrete	Continuous	Both a and b	None
	How many pins does temperature sensor			.	
4	have?	5 legs	2 legs	4 legs	3 legs
	The computer devices and smart phones				Automotive
_	The computer devices and smart phones	 Industrial	Touch screen	Aviation	Industry
5	that have with pressure sensor.	illuusillai	Touch screen	Aviation	industry
	Which of the following devices is used to				
6	measure the gases or liquid?	Optical Sensor	Gas Sensor	Smoke Sensor	Pressure sensor
	Which of the following is not a sensor in				
7	IoT?	BMP280	LED	Photoresistor	DHT11
	Which of the following is used to capture				
	data from the physical world in IoT				
8	devices?	a) Sensors	b) Actuators	c) Microprocessors	d) Microcontrollers
	allows us to monitor the				
9	application.	a. Actuators	b. Endpoints	c. Boot	d. Hypermedia
	accept command to perform				
	function	Sensor	Actuators	Both a) and b)	None

	actuators are used in robotic				
11	and sensors.	Hydraulic	Numetic	Electrical	Mechanical
		Electrical	Engineering		
12	are equipped with a motor	actuators	actuators	Sensor	Controller
	converts electrical signals into				
13	physical Characteristics. Sensor	Sensor	Actuators	Both of them	None of them
	are mechnical devices that				
	perform specific movement based on				
14	commands.	actuators	sensors	Both	None of above
	can generate a large		Hydraulic		
15	amount of force.	IR Sensor	Acutors	Moisture Sensor	Pneumatic Acutors
	converts physical				
16	characteristics into electrical signals	sensors	actuators	both a) and b)	None
17	is an example of an actuator	Calculator	Servo Motor	Thermometer	Fire Detector
	is placed at the input port of				
	IOT System and is placed	Sensors,	Actuators,		
18	at the output port of IOT System.	Actuators	Sensors	Motors, Objects	Sensors, Objects
	sensor measures	temperature			
19	temperature heating.	sensor	air sensor	glass sensor	Both A and B
	use motors for converting	Electrical	Pneumatic	Water Level	
20	the energy into linear movement	Actuators	Actuators	Sensors	Thermal Actuators
	enables production-ready				
21	feature to the spring boot application.	Actuators	Endpoint	Boot	Hyper media
	generates heat or motion,				
22	flow ,etc	Sensors	Radars	Actuators	Objects
	is not a type of Humidity				Thermal
23	sensor	Resistive type	Capacitive type	Combustive type	Conductive

	sensors is used for				
24	emitting and detecting Infrared radiation.	Water level	Fire Detector	Sound	IR
	A tends to convert physical attribute				
25	to an electrical signal.	actuator	compiler	sensor	motors
	A is thermally sensitive resistor		Semiconductor	Resistance	
26	that exhibits a large change in resistance.	Thermistor	based sensor	Thermometer	Thermo couple
	A actuator uses hydraulic				
27	power to perform a mechanical operation.	Pneumatic	Electrical	Hydraulic	Mechanical
	A actuator uses energy				
	formed by vacuum or compressed air at				
	high pressure to convert into either linear				_
28	or rotary motion.	Hydraulic	Magnetic	Mechenical	Pneumatic
					_
29	A crankshaft is an example of actuators.	Hydraulic	Numetic	Mechnical	Thurmal
	A temperature sensor is provided with			_	
30		Sound	Air	Temperature	Liquid
	Actuator is a components of				
	a that is responsible for				
	moving or controlling a mechanism or				
31	system.	Machine	Sensor	Technology	None
	An sensor is an electronic				
	device that measures and detects				
	infrared radiation in its surrounding		NA		1.1 2.1%
32	environment.	Temperature	Water Level	Infrared	Humidity
	An is an electronic	Matanlar	I Iliano o o o to		
	device that measures the distance of a	Water level	Ultrasonic	Tamam matures 0	Limbt Constant
33	target object.	sensor	sensor	Temprature Sensor	Light Sensor
24	An electric actuator uses	Heat	Electrical	Compressed oir	None of the chara
34	An electric actuator uses energy.	пеаі	Electrical	Compressed air mehanical	None of the above
25	An electronic actuator is a	Cololoid	volvos		None of the chave
პ 5	based electronic bell.	Soleloid	valves	actuators	None of the above

	Are sensors used along with other				
36	electronic devices?	Yes	No	May be	
37	Based upon what parameters sensors will be chosen	Environmental factors	Economic factor	Static characteristics	All the above
38	be chosen Change in output of sensor with change in input is	Threashold	Slow rate	Sensitivity	None of the mentioned
	DHT11 is sensors	Light	Smoke	Water level	Temperature and Humidity
41	DHT22 sensor is used to sense:	Obstacles	Resistance	Position	Humidity
42	Digital sensor (Select suitable option)	Binary (0 - 1)	10 bit (0 - 1023)	Never require power supply	All of above
	Electric motor protection has which			Temperature	
43	sensor?	Pressure sensor	Touch sensor	sensor	Humidity sensor
44	Flame sensor is used to	To detect Oxygen	To measure distance between sensor and object	To measure heat of room	To measure intensity of light
45	Full form of RTD is	Resistive Temparature Device	Resistive Touchscreen Device	Resistive Temparature Duration	None
46	How many logic signals are there in the SPI protocol?	Five signals	Six signals	Nine signals	Zero signals
	How many USB ports are present in Raspberry Pi 3?	5	2	4	3
48	How power supply is done to RPi?	USB connection	Internal battery	Charger	Adapter
49	Humidity sensors are classified into	Capacitive Type	Resistive Type	Thermal Conductive Type	All of the above

		3 types		2 types	
		depending on	3 types	depending on	
	Humidity sensors are divided into how	measurement	depending on	measurement	2 types depending
50	many types and depending on what?	units	output	units	on output
	In LDR sensor, if the intensity of light				
	applied is less, its resistance value				
	becomes	Less	High	Zero	Infinity
52	IR in IR sensor stands for	Infra Red sensor	Interior sensor	Internal red sensor	All the above
			Light		
		Light Dependent		Luminous	
53	LDR sensor is abbreviated as	Resistor	Resistor	Duplicated Resistor	None of the above
	Light Sensors known as	Photo Sensor	Fire Sensor	Gas Sensor	None
	3				
55	Microphone is an example of	Gas Sensor	Weight sensor	Sound sensor	None of above
	More than one sensor can be bundled in				
56	one device	TRUE	FALSE	BOTH	NONE
		Manaan Obana	Maganetic	Managaria Occident	
	NACNAA standa fan	Memory Shape	Shape	Maganetic System	Niama af alassa
5/	MSMA stands for Physical object + Controller + Sensor +	Megnatic Aloy	Memory Aloy	Memory Aloy	None of above
		Internet	Intranet	Information	Object
\vdash	Actuator+=IOT	miernei		IIIIOIIIIalioii	Object
	Pneumatic actuators uses as a source of energy.	fluid	compressed air	electric power	none of the above
	Sensor effectiveness depends on	Sensitivity /	all	electric bower	none or the above
60		change	Radiation	Restively	None of the above
	parametere.	90			either input or
61	Sensor is a device.	input	output	both input & output	•
	Sensor is a type of transducer.	TRUE	FALSE	None	None
02	Control to a type of trailbaddoor.	11.02	1,4101	1.10110	1 10110

	Sensors convert signal from analog to				
63		Digital	electrical	mechanical	none of the above
	Sensors generate an output signal in	electrical form /	optical form /		
64	terms of Sensors provides output signals	signal	signal	Both A and B	None of the above
	Sensors provides output signals				
65	depending on	Input	Physical	Both A and B	None of the above
	Shape memory aloys are models used by			Thurmol	
	which type of actuators ?h type of	Hydraulic	Mechanical	maganetic	
	actuators?	actuators	actuators	actuators	Numetic actuators
	The converts various forms of				
	environmental energy into electrical				
67	signals.	sensors	actuators	WSN	cloud
	_				
	The sensors generate the output				
	of discrete time digital representation of a				
	quantity being measured, in the form of				
68	output signals or voltages.	digital	analog	active	passive
	The Amount of Water Present in		l loonal alite	T	
	Surrounding air is measured by which	A -44 - "	Humidity	Temperature	ID Canaan
	Sensor The Control eveter acts upon an	Actuator	Sensor	Sensor	IR Sensor
	The Control system acts upon an	Canaar	Machina	Actuator	All of the above
70	environment through	Sensor	Machine	Actuator	All of the above
	The more correct a senor can measure,				
71	the more it is:	Accurate	Precise	Scaled	Extent
	The optimization objectives of routing	Minimizing the	Minimizing the	Satisfying the	
72	includes	latency	energy	constraints	All of the above
	The output obtained from the temperature				
		Current	Voltage	Both a and b	None of the above
	The rack and pinion is an example of a		Mechanical		
74	actuator	Electrical actuator	actuator	Hydraulic actuator	All of the above

	The smallest change which a sensor can				
75	detect is termed:	Accuracy	Precision	Resolution	Scale
76	Touch screen of mobile phone uses:	AFR Sensor	Pellistor	Viscometer	Tactile sensors
			To measure		
			distance		
			between		
			sensor and	To measure heat	To measure
77	Ultrasonic sensor is used to	To detect Oxygen	object	of room	intensity of light
		Signal wire			Two wire
	What is another name for I2C?	interface	USART	UART	interfaces
79	What is DS18B20?	Pressure sensor	sensor	Humidity sensor	Touch sensor
80	What is ESP8266?	USB cable	Board	Sensor	WIFI module
81	What is humidity sensor?	Hygrometer	Gyroscope	Sesimoscope	Sundial
	What is the default user in Debain on				
82	Raspberry Pi?	Default	User	Pi	Root
				Physical object +	
				controller +	
				sensors +	
		Physical object +	Physical object	actuators +	Physical object +
83	What is the equation of IoT?	compiler+ intranet	only	Internet	controller
			Internet	Information and	Infer
		Inter Connect	Connection	Communication	Communication
84	What is the full form of ICT?	Technology	Topology	Technology	Topology
			Humidity		
85	What is the use of the IR Sensor?	Object Detection	Detection	Image Processing	GPS
	Which sensors resistance value				
86	varies with respect to light intensity?	LDR	Photosensitive	Bio	All of the above

87	Which actuator can cause fluid liquide?	Hydraulic	Electrical	Numetic	Mechanical
	Which actuator is used in solenoid based				
88	electric bell?	Mechanical	Magnetic	Hydraulic	Electrical
	Which actuators convert energy in the				
	form of compressed air into mechanical	Pneumatic	Hydraulic		
89	motion?	Actuators	Actuators	Electrical Actuators	Thermal Actuators
	Which Acutor need low maintenance, are				
	durable, and have a long operational life?	Pneumatic	Electric	Hydraulic	Mechanic
	Which device produces less noise and is				
	safe to use since there are no fluid				
91	leakages?	Sensor	Acutor	IOT Protocol	None of these
			Temperature		
92	Which devices measures gases or liquid?	Touch sensor	sensor	Proximity sensor	Pressure sensor
	Which devices that are used to manipulate the physical environment, such as the temperature control valves used in smart homes.	Sensor	Acutor	IPv4	Wifi
	Which of the following are the	High sensitive to measured	Insensitive to other application	Zero influence of	All the above
94	characteristics of a good sensor?	property	property	measured property	All the above
	Which of the following are the components used allow with the sound sensor	Micro controler	Micro phone	Amplifier	All of the above
	Which of the following consists of two different metals connected at two points?	Thermistor	Resistance Thermometer	Thermocouple	Semiconductor based sensor
	Which of the following detects light intensity	LDR	FSR	Ultrasonic Sensor	None of the above

	which of the following device is also		Ultrasonic		
98	called as a photodetector	IR Sensor	Sensor	Light Sensor	Pressure Sensor
	Which of the following is a type of				
	Actuator?	IR	Fire Detector	Sound	Hydraulic
	Which of the following is able to detect				
	applied force	LDR	FSR	Ultrasonic Sensor	None of the above
	Which of the following is an electronic				
	device that measures the amount of				
	water in the air and convert these				
	measurements into signals that can be		Gas and		
	used as inputs to control or display	Humidity	Chemical		
	devices?	Sensors	Sensors	Ultrasonic sensors	Sound sensors
	Which of the following is an example of				
102	an electrical actuator?	Electrical Fan	DC Motor	Servo Motor	Above all
	Which of the following is consider as				
	input to sensor?	Micro controler	Processor	Both A and B	None of the above
			They are suitable in a	They are only	They can be used
	Which of the following is not a character	Causes no health		suitable in cold	in corrosive
	of a sensor of a sound wave?	hazard	environment	environment	environment
	Which of the following is not a sensor in	liazaiu	environinent	environment	environinient
	IoT?	BMP280	DHT11	Photoresistor	LED
	Which of the following is not an actuator	DIVII 200		1 1101010313101	LLD
	in IoT?	Stepper motor	A fan	An LED	Arduino
		11.			
	Which of the following is the example of a				
	short-range wireless network?	VPN	Wi-Fi	Internet	www
	Which of the following is the type of SPI				
	controller?	Micro-wire or plus	Microwire	Data SPI	Queued SPI
	Which of the following is used to capture	'			
	data from the physical world in IoT		Microcontroller		
110	devices?	Sensors	s	Microprocessors	Actuators

			Hydraulic	Pneumatic	
111	Which of the following is/are actuator(s)?	Rotary Actuators	Actuators	Actuators.	All of these
112	Which of the following takes input from output conditioning unit of system?	actuator	compiler	concor	MQT
112	Which of the following terms refers to the	actuator	Compilei	sensor	IVIQI
	use of compressed gasses to drive				
113	(power) the robot	Pneumatic	Piezoelectric	Hydraulic	Photosensitive
	Which of the following type of sensors				
	required external power source to				
114	operate?	active	passive	both A & B	none of the above
	Which one requires noise reduction				
	equipment, heat exchangers, and high	 Pneumatic	Hydraulic	Temperature	
115	maintenance systems.	Acutors	Acutors	Sensor	Light Sensor
	Which part of the robot provides motion				
116	to the manipulator and end-effector?	Controller	Senser	Actuator	(d)Processor
		Temperature	Humidity		
117	Which sensor is LM35?	sensor	sensor	Pressure sensor	Touch sensor
	Which sensor is used to detect the level	water level		Gas Detector	
118	of substances that can flow?	sensor	Sound sensor	sensor	Humidity sensor
	NATI COLOR DE LA C	Temperature	M/	Henry Pro-Osman	ID O
	Which sensor measure the water vapour? Which sensor senses and measures the	Sensor	Water Sensor	Humidity Sensor	IR Sensor
	temperature and converts it into an	Temperature	Gas Detector		
120	electrical signal?	Sensor	Sensor	Humidity Sensor	Sound Sensor
120	organia organia		311001	Trainiary Consor	
	Which sensors detects the gases in an	Gas Detector		Temperature	
121	area often as part of a safely system.	Sensor	IR Sensors	Sensor	None
	Which type of actuators uses fluid as a				Thermal or
122	source of energy?	Hydraulic	Pneumatic	Electric	magnetic

ſ						
		Which type of sensor is used to measure				
		the distance between the vehicle and	Ultrasonic			
	123	other objects in its environment:	sensor	Tactile sensor	Position	Humidity