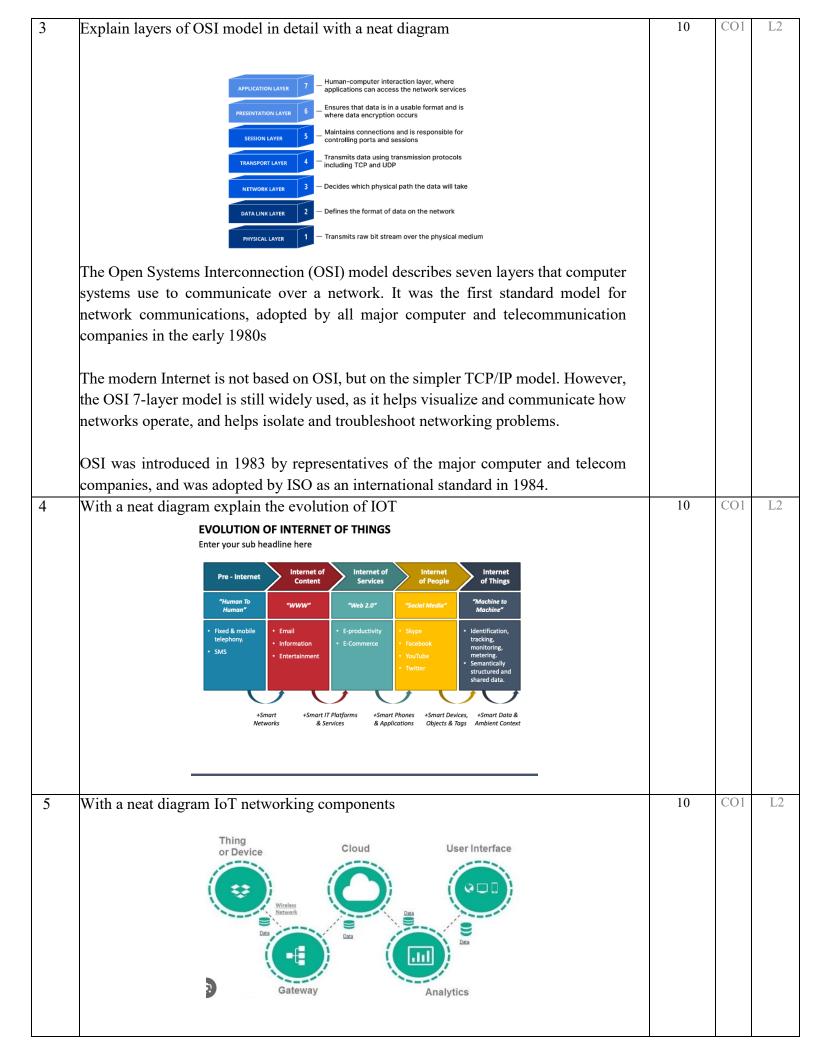
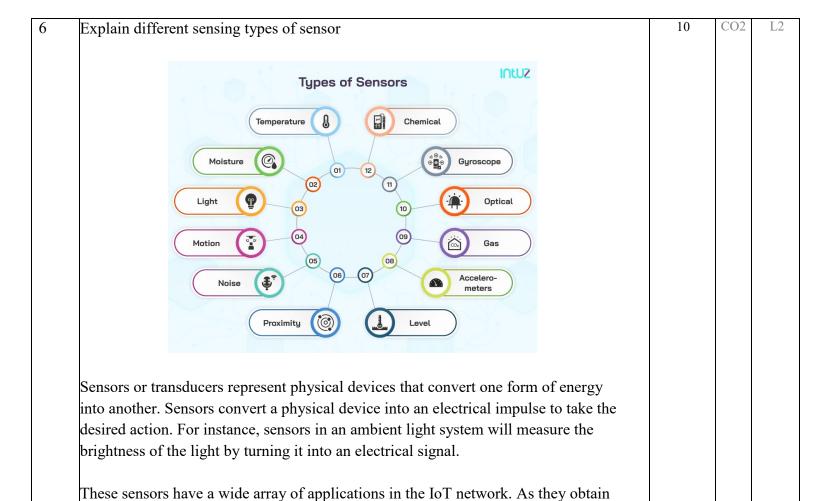
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Internal Assessment Test 1 – Jan 2023

	Internal Assessment Test 1 – Jan 2025			
Sub:	IOT & Wireless Sensor Networks Sub Code: 18EC741 Branch	1:		
Date:	24/01/2023 Duration: 90 min's Max Marks: 50 Sem/Sec: I /		ļ	BE
	Answer any FIVE FULL Questions	MARKS	CO	RBT
	Explain the different connection types and network topologies in detail. Bus Topology: All nodes connect to a common linear cable called bus. Ring Topology: All nodes connect to a circular cable called ring. Mesh Topology: Every node connects to multiple nodes. Star Topology: All nodes connect to a common central hub. Hybrid Topology: Combination of two or more topologies.	10	CO1	L2
	Mesh Topology Ring Topology Star Topology			
	Tree Topology Hybrid Topology			
2	Explain the classification of sensors in detail	10	CO2	L2
2	Explain the classification of sensors in detail		002	
	Classification of Sansars			
	Classification of Sensors			
	Sensors are classified on the basis of the output signal, physical parameters measured by them, and various other points. Sensors on the basis of the output signal are classified into analog and digital output sensors.			
	The output given by the sensors in the case of analog output sensors is an analog voltage that can be measured and used for determining the required physical parameter. This is done by making use of the sensor's transfer function. It may be resistive, capacitive, or anything which is analog.			
	The digital data which can be read via parallel or serial communication buses is the output of digital output sensors. The format for the data, in this case, is demonstrated in the sensor's datasheet. An accelerometer sensor is an example of a digital sensor that is used for sending the output data by using the I2C two-wire bus.			
	output of digital output sensors. The format for the data, in this case, is demonstrated in the sensor's datasheet. An accelerometer sensor is an example of a digital sensor that is			





the parameters of a physical object, the output of their observation is converted into

resistance, capacitance, impedance, etc.