UNIT IV and UNIT V

	W11.1
1.	Which transducer is known as 'self-generating transducer
	A. Active transducer
	B. Passive transducer
	C. Secondary transducer
	D. Analog transducer
	What is the principle of operation of LVDT?
2.	A. Mutual inductance
	B. Self-inductance
	C. Permanence
	D. Reluctance
	Which of the following can be measured using Piezo-electric transducer?
	A. Velocity
3.	B. Displacement
	C. Force
	D. Sound
	The linear variable differential transformer transducer is
	A. Inductive transducer
4.	B. Non-inductive transducer
	C. Capacitive transducer
	D. Resistive transducer
	In LCD, the liquid crystal exhibits properties of
5.	A. Liquid
	B. Solids
	C. Gases
	D. Both (a) and (b)
	By which properties, the orientation of molecules in a layer of liquid crystals
	can be changed?
6	A. Magnetic field
6.	B. Electric field
	C. Electromagnetic field
	D. Gallois field
	The direction of electric field in an LCD is determined by
	A. The molecule's chemical structure
7.	B. Crystalline surface structure
	C. Molecular Orbital Theory
	D. Quantum Cellular Automata
8.	What is the backplane in LCD?
	A. The ac voltage applied between segment and a common element
	B. The dc voltage applied between segment and a common element
	C. The amount of power consumed
	D. For adjusting the intensity of the LCD
1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

	Which of the following represent active transducer?
	A. Strain gauge
9.	B. Thermistor
	C. LVDT
	D. Thermocouple
	Capacitive transducer is used for?
10.	A. Static measurement
	B. Dynamic measurement
	C. Transient measurement
	D. Both static and dynamic
	Hall Effect is a/an
	A. Electronic
11.	B. Magnetic
	C. Galvanic
	D. Ionizing
	Thermistor temperature coefficient is
	A. Negative
12.	B. Positive
	C. Zero
	D. Unique
	Strain gauge is a
	A. Mechanical displacement into a change of resistance
13.	B. Electrical displacement into a change of resistance
	C. Mechanical displacement into a change of resistance
	D. Electrical displacement into a change of resistance
	LCDs operates at frequency ranges from
	A. 10Hz to 60Hz
14.	B. 50Hz to 70Hz
	C. 30Hz to 60Hz
	D. 20Hz to 80Hz
	The dark and average brightness photo resistor has
1.5	A. Low resistance
15.	B. High current
	C. High resistance
	D. Both A and B
	Photoconductors are made of
1.0	A. Thick layer of semiconductor
16.	B. Thin layer of semiconductor
	C. Capacitive substrate
	D. Inductive substrate
17.	Gallium arsenide based LEDs emit radiation in the
	A. Visible Range
	B. Infrared Region
	C. Ultra violet Region
	D. Ultrasonic Region

18.	Thermistor has a resistance of
	A. 250 Ω to 500 kΩ
	B. 50 Ω to 10 kΩ
	C. 1 Ω to 1 kΩ
	D. 100 Ω to 100 kΩ
	What mode should we put the Arduino pin to, for object detection to work with
19.	the IR Sensor?
	A. Analog
	B. Digital
	C. PCM
	D. TDM
	If 1 means an object is detected and 0 meaning no object is detected, then
	considering the sensor is stationary, what can be said about the movement of
	the object if the output by the sensor is 1010101?
20.	A. Object is stationary
	B. Object is oscillating side by side
	C. Object is continuously moving away
	D. d) Object is continuously moving closer
	Which of the following is used in photo conductive cell?
	A. Selenium
21.	B. Quartz
21.	C. Rochelle salt
	D. Lithium sulphate
	When the interconnection between two station has large reactance
	A. The transfer of power with voltage fluctuation
22.	B. The transfer of power will take place with least loss
	C. The stations will fall out of step
	D. None of the above
	A 3-phase four wire system is commonly used in
	A. Primary transmission
23.	B. Secondary transmission
25.	C. Primary distribution
	D. Secondary distribution
	Feeder is designed mainly from the point of view of
	A. Its current carrying capacity
24.	B. Voltage drop in it
	C. Operating voltage
	D. Operating frequency
	The main drawback of underground system over overhead system is
25.	A. Exposure to lightning
	B. Heavy initial cost
	C. Exposure to atmospheric hazards
	D. Power and communication circuits.
26.	Which of the following features is not possessed by biosensor?
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A. The biocatalyst used in the biosensor must be highly specific for the purpose of the analyses B. The reaction occurring in the biosensor should be as independent of such physical parameters C. Active site is mainly constituted by non-polar amino acids for catalysis to take place D. The response from the biosensors should be accurate, precise, reproducible and linear Distribution of charges: Potentiometric biosensor:: Mass of reactants or products: A. Optical biosensor B. Calorimetric biosensor D. Amperometric biosensor D. Amperometric biosensor D. Amperometric biosensor In a biosensor B. Asignal processor B. Amplifier C. Detector D. Transducer Which of the following method of measurement does a bridge circuit uses? A. Relative P. Differential Under which of the following conditions a bridge is balanced? A. When no current flows D. Differential Under which of the following conditions a bridge is balanced? A. When power dissipation is high D. When no voltage drop across the circuit A Schering bridge can be used for the A. protecting the circuit from temperature rises B. testing capacitors C. measuring voltages D. measuring currents Which type of semiconductor is used in Tunnel Diode? A. Compound semiconductor D. Extrinsic semiconductor D. Extrinsic semiconductor D. Extrinsic semiconductor D. Extrinsic semiconductor he sensitivity of thermocouple is defined as the time required by thermocouple to reach how much percentage of its steady state values? 33. A. 43.3 B. 53.2 C. 63.3	1	
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		C. 63.3

	D. 73.3
34.	The response time for different sizes and materials of thermocouple wires usually lie between A. 0.04 to 2.5 seconds
	B. 0.06 to 1.2 seconds
	C. 0.02 to 0.04 seconds
	D. 2.4 to 9.4 seconds
	Which of the following technique can't be used for generating electron-hole
	pairs in electronic devices?
	A. Thermal excitation
35.	B. Impact ionization
	C. Photo excitation
	D. Impurity injection
	Which of the following distribution system is preferred for good efficiency and
	high economy?
2.5	A. Single-phase, 2-wire system
36.	B. 2-phase, 3-wire system
	C. 3-phase, 3-wire system
	D. 3-phase, 4-wire system
	The main reason for using high voltage for long distance power transmission is
	A. Reduction in transmission losses.
37.	B. Reduction in time of transmission.
	C. Increase in system reliability
	D. None of the above
	What is the difference between Photodiode and Solar cell?
	A. No External Bias in Photodiode
38.	B. No External Bias in Solar cell
	C. Larger surface area in photodiode
	D. No difference
	What should be the band gap of the semiconductors to be used as solar cell
	materials?
39.	A. 0.5 eV
57.	B. 1 eV
	C. 1.5 eV
	D. 1.9 eV
40.	In plate earthing the earth plate made up of copper size A. 60cm×60cm×3.18mm
	B. 70cm×80cm×3.18mm
	C. 80cm×65cm×3.18mm
	D. 90cm×60cm×3.18mm
	D. FUCHINOUCHING.TOHIHI