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## First Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 Introduction to Electrical Engineering

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. VTU Formula Hand Book is permitted.  
3. M: Marks, L: Bloom's level, C: Course outcomes.*

Module - 1			M	L	C
Q.1	a.	Explain nuclear power generation with the help of neat block diagram.	7	L1	CO1
	b.	In the circuit shown find the power delivered by the source. <div style="text-align: center;">  <p style="text-align: center;">Fig Q.1(b)</p> </div>	7	L3	CO1
	c.	State and explain Ohm's law with its limitations.	6	L1	CO2
<b>OR</b>					
Q.2	a.	State and explain Kirchhoff's current and voltage laws.	7	L1	CO1
	b.	Explain the general structure of electrical power system, using single line diagram.	7	L1	CO1
	c.	Calculate the currents in the network. <div style="text-align: center;">  <p style="text-align: center;">Fig Q.2(c)</p> </div>	6	L3	CO2
<b>Module - 2</b>					
Q.3	a.	Obtain the behavior of voltage, current and power in a pure resistor connected to 1- $\phi$ A.C. supply. Draw the voltage, current and power waveforms.	7	L2	CO2
	b.	A current of average value 18.019A is flowing in a circuit to which a voltage of peak value 141.42V is applied. Determine: i) Impedance in polar form. ii) rms values of voltage and current. iii) Power consumed by the circuit. Assume voltage lags current by 30°.	7	L3	CO2

# Test Paper Question Electrical

**DP Hallahan**



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web at this meeting they decided that the fraternity s motto would be friendship is essential to the soul as symbolized by three greek letters ΩΨΦ omega psi phi which are

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web the newly revised constitution and by laws and the ritual became effective at the close of the 1970 pittsburgh grand conclave h carl moultrie i omega s only national

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web oct 31 2012 section 1 the name of the organization shall be omega psi phi fraternity incorporated section 2 the symbol of the fraternity shall be the

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in 1977 robert brazile a student at the university of pennsylvania collapsed and died at a fraternity house meeting due to injuries and beatings he sustained while pledging the fraternity in 1978 nathaniel swimson a student at north carolina central university died during an off campus initiation activity he was asked to run several miles before he collapsed and died in 1983 vann watts a student at tennessee state university died of an alcohol overdose follo

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web one of the established policies of the omega psi phi fraternity inc is to have an active omega man serve as advisor to each of her undergraduate chapters this is a policy of

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intellisys compressor to restart automatically 10 120 seconds adjustable after incoming power is restored the power outage restart option is turned on by using the customer set routine on the intellisys controller the restart time delay which is adjustable from 10 120 seconds can also be adjusted while in the

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section 2 introduction the x iri communication gateway is designed to interface the intellisys controllers on ingersoll rand compressors with a distributed control system dcs programmable logic controller plc or any other device that is capable of communicating using the modbus rtu communications protocol

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original intellisys controller sg intellisys controller connect dc volt meter to bts2 4 and bts2 5 connect dc volt meter to p3 terminal 21 22 start unit using local start button page 25 hort separator element life orig sg se short separator element life high pressure differential

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find the ethernet ports underneath the controller you can use port 1 or port 2 and on your laptop connect the ethernet cable to the controller and the laptop in the ports identified ensure the connection and data lights are illuminated for a good

connection

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an x series automation system controller or intellisys controller functions as the slave device information requests or commands are communicated from master to slave only through a system modbus gateway box smg

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zone control function auxiliary inputs outputs for monitoring and control expandable network options bolt on vfd control system component instrumentation and control remote communication gateway technical information controls up to 12 rotary or reciprocating compressors controls intellisys non intellisys and non ingersoll rand compressors