Shri Shankaracharya Institute of Professional Management & Technology Department of Electronics and Telecommunication Engineering

SSIPMT

Class Test - I Session- July- Dec, 2022 Month- November

Sem- ET&T 7th Subject- RF and Microwave Engineering – D028711(028)

Time Allowed: 2 hrs Max Marks: 40

Note: - Attempt any 5 question. All questions carry equal marks.

Q. NO.	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	What are the limitations and Remedy of conventional tubes at microwave frequency	[8]	Remembering	CO3
2.	Explain the working principle and characteristics of 2 cavity Klystron.	[8]	Understanding	CO3
3.	Derive the expression for electronic efficiency of a reflex klystron oscillator	[8]	Analyzing	CO3
4.	Explain the principle of Magnetron and derive the expression of Magnetic field at which the electron just grazes the surface of anode return to cathode	[8]	Understanding	CO3
5.	Explain Impedance matching using discrete components.	[8]	Understanding	CO2
6.	Discuss T and Pi Matching Networks in detail.	[8]	Remembering	CO2
7.	Write a short note on Microstrip Line Matching Networks	[8]	Understanding	CO2

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Shri Shankaracharya Institute of Professional Management & Technology Department of Electronics and Telecommunication Engineering

Class Test – I Session- July– Dec, 2022 Month- November

Sem- ET&T 7th Subject- Instrumentation & IoT – D028712(28)

Time Allowed: 2 hrs Max Marks: 40

Note: - Attempt any 5 question. All questions carry equal marks.

Q.	Questions	Marks	Levels of Bloom's taxonomy	COs
NO.	Discuss the classification of transducer in detail.	[8]	Understanding	COl
1.	Explain the working & construction of LVDT with help of diagram.	[8]	Understanding	CO1
2.	Derive expression for Gauge factor of a strain gauge.	[8]	Understanding	CO1
 4. 	Describe the construction & principle of operation of a resistive pressure transducer. Mention its applications.	[8]	Understanding	CO1
5.	Explain the construction, working, advantages and limitations of U-tube double column manometer.	[8]	Understanding	CO2
6.	Explain the working of a piezoelectric device. Give its application, advantages & disadvantages.	[8]	Understanding	CO2
7.	Discuss about poto electric transducer.	[8]	Understanding	CO2

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Shri Shankaracharya Institute of Professional Management & Technology Department of Electronics and Telecommunication Engineering

Class Test – I Session- July– Dec, 2022 Month- November

Sem- ET&T 7th Subject- Instrumentation & IoT – D028712(28)

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4.	Describe the construction & principle of operation of a resistive pressure transducer. Mention its applications.	[8]	Understanding	CO1
5.	Explain the construction, working, advantages and limitations of U-tube double column manometer.	[8]	Understanding	CO2
6.	Explain the working of a piezoelectric device. Give its application,	[8]	Understanding	CO2
7.	advantages & disadvantages. Discuss about poto electric transducer.	[8]	Understanding	CO2



Shri Shankaracharya Institute of Professional Management & Technology Department of Electronics and Telecommunication Engineering

Class Test – I Session- July. – Dec, 2022 Month- November

Sem- 7th Subject- Wireless Communication - D028713(028)

Time Allowed: 2 hrs Max Marks: 40

Note: - Attempt any 5 question. All questions carry equal marks.

Q. NO.	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	Explain the history and technical details of 3G.	[8]	Understanding	COI
2.	Explain the features, Speed & application of 4G.	[8]	Understanding	COI
3.	Explain the evolution of Mobile Radio Communication.	[8]	Understanding	COI
4.	Explain the Hand-Off mechanism of cellular communication system.	[8]	Understanding	CO2
5.	Explain in detail effective Channel Assignment Strategies.	[8]	Understanding	CO2
6.	Explain Microcell Zone concept for improving capacity of cellular system	[8]	Understanding	CO2



Shri Shankaracharya Institute of Professional Management & Technology Department of Electronics and Telecommunication Engineering

Class Test - I Session- July. - Dec, 2022 Month- November

Sem- 7th Subject- Wireless Communication - D028713(028)

Time Allowed: 2 hrs Max Marks: 40

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1.	Explain the history and technical details of 3G.	[8]	Understanding	COI
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Shri Shankaracharya Institute of Professional Management & Technology Department of Electronics and Telecommunication Engineering

Class Test – I Session-July-Dec, 2022 Month- November

Sem- ET&T 7th Subject- Power Electronics D028735(028)

Time Allowed: 2 hrs Max Marks: 40

Note: - Attempt any 5 question. All questions carry equal marks.

Q. NO.	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	Explain two transistor analogy of SCR. Derive the expression of anode current in two transistor analogy.	[8]	Understanding	CO1
2.	What is the difference between Symmetric & Asymmetric IGBT. Explain the working of Asymmetric IGBT.	[8]	Understanding	CO1
3.	With help of neat sketch & waveform. Explain Dynamic turn on & off switching characteristics of SCR.	[8]	Understanding	CO2
4.	With help of neat sketch & waveform. Explain the working of single phase full wave converter using RLE load.	[8]	Understanding	CO2
5.	Describe the different modes of operation of a thyriston with the help of its static VI characteristics.	[8]	Understanding	CO1
6.	Describe Impulse Commutation with appropriate circuit diagram & wave form.	[8]	Understanding	CO2

Shri Shankaracharya Institute of Professional Management & Technology Department of Electronics and Telecommunication Engineering

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Class Test - I Session-July-Dec, 2022 Month-November

Sem- ET&T 7th Subject- Power Electronics D028735(028)

Time Allowed: 2 hrs Max Marks: 40

Q. NO.	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	Explain two transistor analogy of SCR. Derive the expression of anode current in two transistor analogy.	,[8]	Understanding	CO1
2.	What is the difference between Symmetric & Asymmetric IGBT. Explain the working of Asymmetric IGBT.	[8]	Understanding	CO1
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Shri Shankaracharya Institute of Professional Management & Technology **Department of Electronics and Telecommuication Engineering**

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Class Test - I Session- July. - Dec, 2022 Month- Nov

Sem- ET&T 7th sem Subject- Entrepreneurship Essential - D000741(033)

Max Marks: 40 Time Allowed: 2 hrs

Note: - Attempt any 5 question. All questions carry equal marks.

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Q. NO.	Questions	Marks	taxonomy	
And the second section of the second section is not the second section of the section of the second section of the second section of the s	Define Entrepreneurship. What are the requirements to be an Entrepreneur.	[8]	Understanding	CO1
1.	Describe the growth of Entrepreneurship in India.	[8]	Understanding	CO1
2.		[8]	Understanding	CO1
3.	Explain rural and urban Entrepreneurship.		Remembering	CO2
4.	Describe Government's policy actions towards Entreprenerial motivation.	[8]	The state of the s	CO2
5.	Explain Maslow theory of Motivation.	[8]	Remembering	1
And the second of the second o	Illustrate McClelland's Human Motivation Theory	[8]	Understanding	CO2
6.	Illusuate Meclenary		and the same of th	*

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Shri Shankaracharya Institute of Professional Management & Technology **Department of Electronics and Telecommuication Engineering**

Class Test - I Session-July. - Dec, 2022 Month-Nov

Sem- ET&T 7th sem Subject- Entrepreneurship Essential - D000741(033)

Time Allowed: 2 hrs Max Marks: 40

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4.	Describe Government's policy actions towards Entreprenerial motivation.	[8]	Remembering	CO2
5.	Explain Maslow theory of Motivation.	[8]	Understanding	CO2
6.	Illustrate McClelland's Human Motivation Theory			