




Q. NO.	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	Explain the working of a Tunnel Diode	[8]	Remembering	CO4
2.	Write a short note on a) TRAPATT, b)IMPATT	[8]	Understanding	CO4
3.	Explain the operation of Magic Tee. Why is a hybrid E-H plane Tee referred as Magic Tee. Derive scattering matrix for magic tee	[8]	Remembering	CO4
4.	Define VSWR. Explain the principle of operation and application of VSWR meter	[8]	Remembering	CO5
5.	Draw the block diagram showing working of a Satellite communication system	[8]	Understanding	CO5
6.	Explain the working of a RADAR with the help of a block diagram	[8]	Remembering	CO5
7.	Describe Bipolar microwave transistor in terms of structure, operation and characteristics	[8]	Understanding	CO4


Shri Shankaracharya Institute of Professional Management & Technology
 Department of Electronics and Telecommunication Engineering
 Class Test – II Session- July-Dec, 2023, Month-December
 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.	Explain the working of a Tunnel Diode	[8]	Remembering	CO4
2.	Write a short note on a) TRAPATT, b)IMPATT	[8]	Understanding	CO4
3.	Explain the operation of Magic Tee. Why is a hybrid E-H plane Tee referred as Magic Tee. Derive scattering matrix for magic tee	[8]	Remembering	CO4
4.	Define VSWR. Explain the principle of operation and application of VSWR meter	[8]	Remembering	CO5
5.	Draw the block diagram showing working of a Satellite communication system	[8]	Understanding	CO5
6.	Explain the working of a RADAR with the help of a block diagram	[8]	Remembering	CO5
7.	Describe Bipolar microwave transistor in terms of structure, operation and characteristics	[8]	Understanding	CO4


Shri Shankaracharya Institute of Professional Management & Technology
 Department of Electronics and Telecommunication Engineering
 Class Test – II Session- July-Dec, 2023 Month-December
 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 is bimetallic thermometer? Explain with neat diagram.	[8]	Remembering	CO3
2.	Sketch venturi flow meter. Explain important constructional features of venturimeter.	[8]	Understanding	CO3
3.	Explain Industrial Internet of Things (IIOT). What are the security consideration and challenges in adopting the IIOT?	[8]	Understanding	CO4
4.	What is IOT Architecture? Define four layers of IOT Architecture?	[8]	Remembering	CO4
5.	What is OSI Model? Explain all layers.	[8]	Remembering	CO5
6.	What is Zigbee? How it works?	[8]	Remembering	CO5
7.	What are the challenges in IOT? Explain in detail.	[8]	Remembering	CO5


Shri Shankaracharya Institute of Professional Management & Technology
 Department of Electronics and Telecommunication Engineering
 Class Test – II Session- July-Dec, 2023 Month- December
 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. NO.	Questions	Marks	Levels of Bloom's taxonomy	Cos
1.	What is bimetallic thermometer? Explain with neat diagram.	[8]	Remembering	CO3
2.	Sketch venturi flow meter. Explain important constructional features of venturimeter.	[8]	Understanding	CO3
3.	Explain Industrial Internet of Things (IIOT). What are the security consideration and challenges in adopting the IIOT?	[8]	Understanding	CO4
4.	What is IOT Architecture? Define four layers of IOT Architecture?	[8]	Remembering	CO4
5.	What is OSI Model? Explain all layers.	[8]	Remembering	CO5
6.	What is Zigbee? How it works?	[8]	Remembering	CO5
7.	What are the challenges in IOT? Explain in detail.	[8]	Remembering	CO5


Shri Shankaracharya Institute of Professional Management & Technology
 Department of Electronics and Telecommunication Engineering
 Class Test – II Session- July-Dec, 2023 Month- December
 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.



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

Class Test – II Session- July-December, 2023 Month- December

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

Time Allowed: 2 hrs Max Marks: 40

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

Q. No.	Questions	Marks	Levels of Bloom's taxonomy	CO
	Explain the TRIAC based AC Voltage Controller	[8]	Understanding	CO5
	With the help of circuit diagram & waveform explain working of three phase to single phase cycloconverter	[8]	Understanding Analyze	CO5
	Explain the Operation of 120° conduction mode of 3 phase bridge inverter feeding star connected purely resistive load with relevant waveform.	[8]	Understanding Analyze	CO4
	Explain the Basic working principle of single phase half bridge inverter R, R-L, R-L-C (over & underdamped) Load.	[8]	Understanding	CO4
	Explain operation of three phase full controlled bridge converter with associated waveform.	[8]	Understanding	CO3
	Explain single phase dual converter & its working.	[8]	Understanding	CO3



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

Class Test – II Session- July-December, 2022 Month- January

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

Time Allowed: 2 hrs Max Marks: 40

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

Q. No.	Questions	Marks	Levels of Bloom's taxonomy	CO
	Explain the TRIAC based AC Voltage Controller	[8]	Understanding	CO5
	With the help of circuit diagram & waveform explain working of three phase to single phase cycloconverter	[8]	Understanding Analyze	CO5
	Explain the Operation of 120° conduction mode of 3 phase bridge inverter feeding star connected purely resistive load with relevant waveform.	[8]	Understanding Analyze	CO4
	Explain the Basic working principle of single phase half bridge inverter R, R-L, R-L-C (over & underdamped) Load.	[8]	Understanding	CO4
	Explain operation of three phase full controlled bridge converter with associated waveform.	[8]	Understanding	CO3
	Explain single phase dual converter & its working.	[8]	Understanding	CO3



Shri Shankaracharya Institute of Professional Management & Technology
Department of Electronics and Telecommunication Engineering
Class Test – II Session- July– Dec, 2023 Month- December
Sem- ET&T 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 free space propagation model in detail.	[8]	Understanding	CO3
2.	Explain channel estimation ion MIMO system	[8]	Analyzing	CO3
3.	Discuss about diversity techniques. Explain its type	[8]	Understanding	CO3
4.	Discuss protocol architecture for signaling in GSM	[8]	Analyzing	CO4
5.	Discuss about General Packet Radio Service	[8]	Understanding	CO4
6.	Explain MSK modulation techniques	[8]	Analyzing	CO4
7.	Write notes on Mobile IP	[8]	Understanding	CO4



Shri Shankaracharya Institute of Professional Management & Technology
Department of Electronics and Telecommunication Engineering
Class Test – II Session- July– Dec, 2023 Month- December
Sem- ET&T 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 free space propagation model in detail.	[8]	Understanding	CO3
2.	Explain channel estimation ion MIMO system	[8]	Analyzing	CO3
3.	Discuss about diversity techniques. Explain its type	[8]	Understanding	CO3
4.	Discuss protocol architecture for signaling in GSM	[8]	Analyzing	CO4
5.	Discuss about General Packet Radio Service	[8]	Understanding	CO4
6.	Explain MSK modulation techniques	[8]	Analyzing	CO4
7.	Write notes on Mobile IP	[8]	Understanding	CO4



Shri Shankaracharya Institute of Professional Management & Technology
Department of Electronics and Telecommunication Engineering
Class Test – II Session- July-Dec, 2023
Sem- ET&T 7th Subject- Entrepreneurship Essentials D000741(033)
Time Allowed: 2 hrs Max Marks: 40

Note: - Q.1 is compulsory and attend any 4 from 2,3,4,5,6.

Q. NO	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	Describe the methods of project evaluation.	[8]	Understanding	CO2
2.	Discuss about the role of small enterprises in economic development.	[8]	Understanding	CO1
3.	Comparison among proprietorship,partnership,Ltd.companies and Co-operatives .	[8]	Apply	CO1
4.	What are the content & formulation of project report .	[8]	Understanding	CO2
5.	What are govt. policies for small-scale enterprises	[8]	Understanding	CO2
6.	How raising & managing of capital,shares,debentures and bond can done in financing enterprise.	[8]	Understanding & Apply	CO1



Shri Shankaracharya Institute of Professional Management & Technology
Department of Electronics and Telecommunication Engineering
Class Test – II Session- July-Dec, 2023
Sem- ET&T 7th Subject- Entrepreneurship Essentials D000741(033)
Time Allowed: 2 hrs Max Marks: 40

Note: - Q.1 is compulsory and attend any 4 from 2,3,4,5,6.

Q. NO	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	Describe the methods of project evaluation.	[8]	Understanding	CO2
2.	Discuss about the role of small enterprises in economic development.	[8]	Understanding	CO1
3.	Comparison among proprietorship,partnership,Ltd.companies and Co-operatives .	[8]	Apply	CO1
4.	What are the content & formulation of project report .	[8]	Undrestanding	CO2
5.	What are govt. policies for small-scale enterprises	[8]	Understanding	CO2
6.	How raising & managing of capital,shares,debentures and bond can done in financing enterprise.	[8]	Understanding & Apply	CO1