

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

Class Test – II Session- Jan–June, 2023 Month- April

Sem- ET&T 8th sem Subject- Advanced Communication - D028811(028)

Time Allowed: 2 hrs Max Marks: 40

Note- Attempt any 5 Questions. All questions carry equal marks

Q. NO.	Questions	Marks	Levels of Bloom's taxonomy	COs
1.	Explain TDMA in following heads: a) Frame and Burst Structure b) Frame Efficiency c) Frame Acquisition and Synchronization.	[8]	Understanding	CO3
2.	Write a short note on OFDM	[8]	Understanding	CO3
3.	Describe with the help of simple ray diagrams a) the multimode step index fibre b) the single mode step index fibre	[8]	Understanding	CO4
4.	Explain different types of Attenuation that takes place in Optical fibre communication.	[8]	Understanding	CO4
5	Write Short notes on the following : a) PIN Photodiode b) Avalanche Photodiode	[8]	Understanding	CO5
6	With the help of a block diagram explain SONET network and its advantages over other network	[8]	Understanding	CO5

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Department of Electronics and Telecommunication Engineering

Class Test – II Session- Jan– May, 2023 Month- April

Sem- ET&T 8th Subject- Radar and Navigational Aids – D028832(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.	Explain the effect of attenuation by atmospheric gases on radar wave propagation.	[8]	Evaluating	CO3
2.	What are the various external noise limit the detectability of radar target?	[8]	Remembering	CO3
3.	What is lobing? Discuss the methods for minimizing lobing effect.	[8]	Remembering	CO3
4.	What are phased array antenna and explain its working?	[8]	Remembering	CO4
5.	Discuss the advantages of consecant squared antenna.	[8]	Understanding	CO4
6.	Discuss duplexes and receiver protector in detail.	[8]	Understanding	CO5
7.	Explain principle and working of superhetrodyne receiver.	[8]	Evaluating	CO5



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Class Test – II Session Jan.–June, 2023 Month- April

Sem- 8th Subject- Environmental Science D000801(094)

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 biogeographical classification of India.	[8]	Understanding	CO3
2.	Define biodiversity. Explain genetic diversity, species diversity and ecosystem diversity.	[2+6]	Understanding	CO3
3.	What do you mean by consumptive use value, productive use value, social value, ethical value and option value of biodiversity ?	[8]	Understanding	CO3
4.	Explain different approaches involved in conservation of biodiversity.	[8]	Understanding	CO3
5.	Define acid rain. Write causes, effects and control measures of acid rain.	[2+6]	Understanding	CO5
6.	What is ozone layer depletion? Explain its causes, effects and control measures.	[2+6]	Understanding	CO5
7.	What do you mean by global warming? Write main sources, effects and control measures of global warming.	[2+6]	Understanding	CO5



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Class Test – II Session Jan.–June, 2023 Month- April

Sem- 8th Subject- Environmental Science D000801(094)

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 biogeographical classification of India.	[8]	Understanding	CO3
2.	Define biodiversity. Explain genetic diversity, species diversity and ecosystem diversity.	[2+6]	Understanding	CO3
3.	What do you mean by consumptive use value, productive use value, social value, ethical value and option value of biodiversity ?	[8]	Understanding	CO3
4.	Explain different approaches involved in conservation of biodiversity.	[8]	Understanding	CO3
5.	Define acid rain. Write causes, effects and control measures of acid rain.	[2+6]	Understanding	CO5
6.	What is ozone layer depletion? Explain its causes, effects and control measures.	[2+6]	Understanding	CO5
7.	What do you mean by global warming? Write main sources, effects and control measures of global warming.	[2+6]	Understanding	CO5