III B	2.5 时间的复数形式 网络拉斯尔	I
фłози Иссан		
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QP CODE: 19101937

Reg No	:	•••••
Name	:	

B.Sc.DEGREE (CBCS) EXAMINATION, MAY 2019

Second Semester

B.Sc Computer Science Model III

Complementary Course - EL2CMT07 - ELECTRONICS - DATA COMMUNICATION

2017 ADMISSION ONWARDS

B2679A1F

Maximum Marks: 80

Time: 3 Hours

Part A

Answer any **ten** questions. Each question carries **2** marks.

- 1. Express the relation between period and frequency?
- 2. Explain bandwidth of a signal.
- 3. What is the relation between propagation speed and propagation time?
- 4. Explain coaxial cable standards.
- 5. What is refraction?
- 6. How are terrestrial microwaves relayed from source to destination?
- 7. Compare Serial and parallel ports.
- 8. Compare synchronous and asynchronous transmission
- 9. What is FSK?
- 10. What do you mean by analog -to-analog conversion. How this conversion can be accomplished?
- 11. What do you mean by a telephone switching office? Which are the different types?
- 12. What is DSLAM? What is the function of splitter used in a DSL network?

 $(10 \times 2 = 20)$

Part B

Answer any **six** questions. Each question carries **5** marks.

13. (a) What does the shannon capacity have to do with communications? (b) Define wavelength.



- 14. Write a note on noise calculation in communication system.
- 15. Write a note on UTP connectors.
- 16. Describe the physical composition of optical fibre.
- 17. With a neat diagram and wave forms explain the transmitting section of PCM.
- 18. What is delta modulation and explain its features?
- 19. Give an account of various types of FHSS.
- 20. Explain the sequence of actions in the setup phase of a virtual circuit network?
- 21. How traditional cable networks differ from HFC networks?

 $(6 \times 5 = 30)$

Part C

Answer any **two** questions.

Each question carries 15 marks.

- 22. (a) What is a signal? Explain how they are classified. (b)Describe various types of signal and give the graphical and functional representation of those signal.
- 23. Explain radio frequency allocation and types of propagation of radio waves.
- 24. (a) Give an account of analog to digital conversion. (b) Draw and explain the block diagram of analog to digital conversion?
- 25. Explain TDM and briefly explain the two schemes of TDM.

(2×15=30)