

Roll No.

Y – 3104(A)
M.Sc. (Second Semester) (SPECIAL) EXAMINATION, August 2021
(SECOND CHANCE)
COMPUTER SCIENCE
Paper–204
(Computer Networks)
Time : Three Hours

Maximum Marks : 85

Minimum Pass Marks : 29

Note : Attempt *all* questions.

1. Giving neat diagram and suitable example, write explanatory short notes on any *three* of the following : 17
 - (i) Analog to digital conversion
 - (ii) Multiplexing
 - (iii) Encoding
 - (iv) ISO-OSI model
 - (v) Error detection and correction.
2. Giving neat diagram and suitable example, write explanatory short notes on any *three* of the following : 17
 - (i) ARQ
 - (ii) Noise free and noisy channels
 - (iii) ATM cells
 - (iv) HDLC
3.
 - (i) What do you understand by pure ALOHA and slotted ALOHA ?
 - (ii) Explain channel allocation problem. Differentiate between static channel allocation and dynamic channel allocation in LANS and MANS. What is IEEE 802.3 ? Explain in detail. 17
4. Write explanatory short notes on any *three* of the following : 17
 - (i) Optimality principle
 - (ii) Collision free protocols
 - (iii) Difference between virtual circuits and data gram
 - (iv) Routing algorithms.
5. Write explanatory short notes on any *three* of the following : 17
 - (i) Cryptography and its uses
 - (ii) Electronic mail
 - (iii) Abstract syntax notation
 - (iv) Breaking DES.

Y – 3101(A)