

नोट : सभी 04 प्रश्न पत्र हल करना अनिवार्य है।

नोट : प्रत्येक प्रश्न-पत्र को पृथक्-पृथक् उत्तर-पुस्तिका में लिखना अनिवार्य है।

Note: Each paper is compulsorily written on separate answer sheet.

FS-1671

M. Sc. (Fourth Semester) Examination, 2020

COMPUTER SCIENCE

Paper : First

(Internetwork Applications)

Maximum Marks : 40

Note: Attempt all questions. Each question carry equal marks. Each question must be answered in maximum 800 words.

1. What is the main function of Internet Protocol? Which types of information are contained in IP header? Discuss.
2. Explain the usage and major services offered by ARP and RARP Protocols.
3. What do you understand by Proxy Services? Discuss.
4. Discuss the features and services offered by T-1, T-3 and Frame Relay systems.
5. Write short notes on any **one** of the following :
 - (a) TFTP
 - (b) UDO

FS-1672

M. Sc. (Fourth Semester) Examination, 2020

COMPUTER SCIENCE

Paper : Second

(Computer Graphics & Multimedia)

Maximum Marks : 40

Note: Attempt all questions. Each questions carry equal marks. Each question must be answered in maximum 800 words.

1. Write short note on the following :
 - (a) LED and LCD monitor
 - (b) Refresh cathode-ray tube
 - (c) Plotters
2. Explain anti aliasing lines. Describe and derive Bresenham's circle drawing algorithm.

3. Derive with a neat sketch various steps needed for reflection about the line $P_x \quad Q_y \quad r \quad 0$. Write short note on 3D transformation.
4. Explain JPEG compression process in detail. Write short note on multimedia hardware.
5. Explain parametric representation of ellipse with example.

FS-1673

M. Sc. (Fourth Semester) Examination, 2020

COMPUTER SCIENCE

Paper : Third

(Artificial Intelligence)

Maximum Marks : 40

Note: All questions are compulsory. Each questions carry equal marks. Each question must be answered in maximum 800 words.

1. Explain any two situations where hill climbing algorithm may fail to find a solution.
2. What do you understand by knowledge organization? How do we represent knowledge? Explain in brief.
3. "Some medicines are dangerous only if taken in excessive amount" Translate his sentence into formulas in predicate logic and then a clause form.
4. Explain in short the working of DENDRAL and MYCIN. Discuss the concept of uncertainty in expert system.
5. What is difference between information and knowledge? Explain.

FS-1674

M. Sc. (Fourth Semester) Examination, 2020

COMPUTER SCIENCE

Paper : Fourth

(Software Engineering)

Maximum Marks : Regular 40

Note: All questions are compulsory. All questions carry equal marks. Each question must be answered in maximum 800 words.

1. Describe software development life cycle.
2. What are design of solution strategies? How would you assess the quality of software design?
3. What are software mannuals? Describe in details.
4. What do you understand by exception handling?
5. Describe "Validation".