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Faculty of Science & Information Technology
Department of Computer Science and Engineering
Final Examination, Fall 2024
Course Code: CSE421, Course Title: Computer Graphics
Level: 4 Term: 1 Teacher: All

Time: 2:00 Hrs **Mark**

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outco... portions of each question must be answered sequentially.]

1. a) **Compare** two types of projection. [3]

   b) **Which** color model is better? Explain. [2]

   c) **Define** surface rendering? **Why** it is important? [2]

   d) **Explain** visual defects occur in Figure-A. **How** can you remove this jagged image in the context of Computer Graphics? [3]

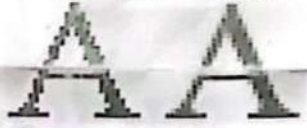


Figure A

2. From the following figure- B [10]
   i. **Identify** the coordinates of each point.
   ii. **Discover** new object after rotate the cube ** degrees along the Z axis. ** is the last two digits of your ID.
   iii. **Find out** the new object by performing reflection operation in y axis.

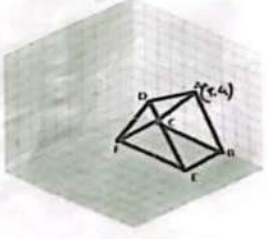


Figure B

algorithm should you use to clip subject polygon? **Show** the whole procedure using anticlockwise direction only. [10]

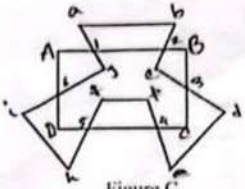


Figure C

4. Apply appropriate line clipping algorithm for the following Figure D [1...
   i) **Identify** the categories of lines AB, CD, EF, GH, IJ, KL and MN.
   ii) **Perform** Clipping operation

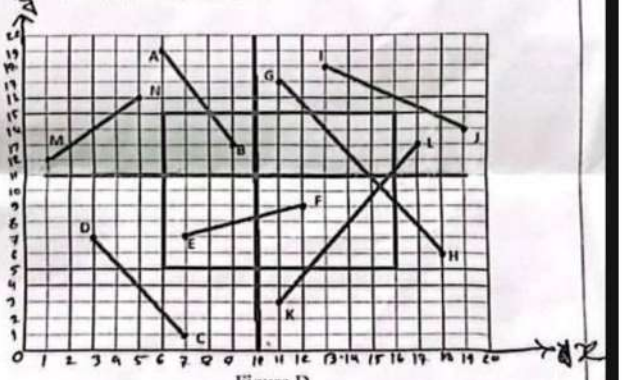


Figure D