

**PROGRAMME** : M.Sc/MCA 4th Semester  
**SEMESTER** : 4th Semester  
**SUBJECT CODE** : M.Sc 16/MCA 16  
**SUBJECT TITLE** : Artificial Intelligence  
**MAX MARKS** : 15

Ques.1 Explain the difference between knowledge & knowledge base?

Ques.2 What is difference between hill-climbing & best first search?

Ques.3 Explain WFF and Clause Form with Example?

Ques.4 Explain what is expert system? What are its components? Discuss the different methods to acquire the knowledge and problem with knowledge acquisition?

Ques.5 What is fuzzy expert system? Explain the whole in detail?

Ques.6 What is forward reasoning and backward reasoning? Explain.

**SUBJECT CODE : M.Sc17/MCA 17**

**SUBJECT TITLE : Computer Graphics**

Ques.1 Write short notes on any three

a) Bresenham's line algorithm

b) Line clipping algorithm

c) Input devices

d) Output devices.

Ques.2 Explain the working of graphics tablets and voice system?

Ques.3 What do you mean by projection and how projection is used in 3D graphics?

Ques.4 What is general method of scan conversion of line?

Ques.5 How line clipping is implemented through Sutherland Cohen and midpoint subdivision?

Ques.6 What is flat panel displays? Explain in detail?

**SUBJECT CODE :M.Sc 18/MCA 18**

**SUBJECT TITLE : Object Oriented Analysis & Design**

Ques.1 Explain the concept of classes & object?

Ques.2 Explain the following models of object-oriented analysis & design?

- a) Object
- b) Dynamic
- c) Functional

Ques.3 Draw the DFD for ATM?

Ques.4 Prepare object diagram showing at least 10 relationships among the following Objects School, Playground, Board, Classroom, Lab., Ruler, Restroom, Swings, Principal.

Ques.5 What are templates? Describe the process of creation of templates?

Ques.6 Describe the following :-

- a) Friend Function
- b) Virtual Function
- c) Polymorphisms
- d) Inheritance