association names where needed. The object classes are :

automobile, engine, wheel, brake, light, door, battery, muffler, tail pipe, chasis, differential, shaft, value, piston, plug, gear box, petrol tank, seat. **15**

8. Define the following in brief : **5×3=15**

 (a) Abstract class

 (b) Multiple inheritance

 (c) Multiplicity.

BB-685

M.C.A. EXAMINATION, May 2018

(Second Semester)

(B. Scheme) (Main & Re-appear)

(MCA)

MCA408

INFORMATION SYSTEM
ANALYSIS & DESIGN

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Section.

Section A

1. You have been retained as a software consultant by a school which has around 3000 students. The school authorities are thinking to invest in hardware and software for computerization of school activities. Suggest various activities of the school which can be computerized and give them a complete step-by-step system development flow chart. Also suggest hardware requirement present in a report format. **15**

2. "Decision making requires ability to handle information carefully." Explain. How can you identify information needs ? **15**

Section B

3. (a) Define Management Information System and discuss various characteristics expected of a good MIS. **7.5**

   (b) What are the different ways of allocating resources to different applications in an organization ? **7.5**

4. (a) Evaluate critical success factor method for the purpose of Information Requirement Analysis. **7.5**

   (b) Explain a system. Why is systems view justified towards organizational information needs ? **7.5**

Section C

5. "Manager must have a sound implementation strategy for information system projects." Explain. **15**

6. How the testing plan are made for a system. Explain. **15**

Section D

7. Prepare object diagrams showing at least 10 relationships among the following object classes. Include association, aggregation and generalization, Use qualified associations and show multiplicity balls in your diagram. You need not to show attributes or operations. Use