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Printed Pages : 3

MBA-IT-2

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1018

Roll No.

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M.B.A.

**(SEM. III) EXAMINATION, 2008-09
SYSTEM ANALYSIS & DESIGN AND
SOFTWARE ENGINEERING**

Time : 3 Hours]

[Total Marks : 100

- Note :*
- (1) Attempt **all** questions.
 - (2) Be precise in your answers.

1 Attempt any **four** parts of the following : **5×4=20**

- (a) What is the difference between information system and information technology ?
- (b) Who are the six stakeholders groups in information system ?
- (c) What is a system ? Discuss the various elements of a system.
- (d) What do you mean by system analysis ? Why is it a important phase in software development ?
- (e) What do you mean by decision support system ? Explain its various components.
- (f) To become an analyst which skill is more important, technical skill or interpersonal skill.
- Discuss.



2 Attempt any **four** parts : $5 \times 4 = 20$

- (a) What are the various fundamental principles of system development ? Explain what you would do to incorporate those principles into a systems development process.
- (b) Write down the guidelines for conducting good interview.
- (c) List and explain the three triggers for a system development project.
- (d) What do you mean by Data Flow Diagram (DFD) ? Discuss the symbols of DFDs with suitable example.
- (e) What is an entity ? Discuss various types of entities.
- (f) What is sampling ? What is work sampling ? What are two commonly used sampling techniques ?

3 Attempt any **two** parts : $10 \times 2 = 20$

- (a) What is a model ? What are the characteristics of model ? Why models are used ? Explain with example.
- (b) What is time boxing ? Why it is so popular ?
- (c) Draw a Physical DFD and Logical DFD (upto 3 level) for your institution course registration and scheduling system. (make necessary assumptions)

4 Attempt any **two** parts : $10 \times 2 = 20$

- (a) Explain the SDLC with the help of structured analysis approach.
- (b) Explain the Rapid Application Development (RAD) model. Discuss each phase in detail.
- (c) What is the distinctive purpose of sequence diagrams and collaboration diagrams ? Draw these two diagrams for a scenario at the check point at super shoppe for paying cash for purchase of time items.

5 Attempt any **two** parts : $10 \times 2 = 20$

- (a) Explain software validation and varification ? Discuss the installation and maintenance process in detail. List the problems encountered during installation.
- (b) Explain object oriented life cycle. Discuss its various phases in detail. Which phase is most important and why ?
- (c) What do you mean by design documentation ? Explain its scope and design a template for a design specification document.

