

8. (a) Explain the following terms :
- (i) Cost Estimating
  - (ii) Cost Budgeting
  - (iii) Cost Control
9. (a) Explain different project estimation techniques.
- (b) Differentiate between Basic COCOMO and Intermediate COCOMO.



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**2015**

Time : 3 hours

Full Marks : 80

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

*Answer from both the Groups as directed.*

**Group – A**  
**(Objective Type Questions)**  
**(Compulsory)**

1. Choose the correct answer of the following :  
2x10 = 20

- (a) In a DFD external entities are represented by a :
- (i) Rectangle
  - (ii) Ellipse
  - (iii) Diamond shaped box
  - (iv) Circle

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(b) A data flow can :

- (i) Only emanate from an external entity
- (ii) Only terminate in an external entity
- (iii) May emanate and terminate in an external entity
- (iv) May either emanate or terminate in an external entity but not both

(c) SDLC stands for :

- (i) System development life cycle
- (ii) Structure design life cycle
- (iii) System design life cycle
- (iv) Structure development life cycle

(d) HIPPO stands for :

- (i) Hierarchy input process output
- (ii) Hierarchy input plus output
- (iii) Hierarchy plus input process output
- (iv) Hierarchy input output process

(e) A \_\_\_\_\_ is an outline of a process that keeps develop successful information systems.

- (i) System development life cycle

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Contd.

(ii) CASE tool

- (iii) Phased conversion
- (iv) Success factors

(f) Which of the model is used for system components ?

- (i) PERT Chart
- (ii) Gantt chart
- (iii) Organizational
- (iv) DFD

(g) By metadata we mean :

- (i) Very large data
- (ii) Data about data
- (iii) Data dictionary
- (iv) Meaningful data

(h) A data element in a data dictionary may have :

- (i) Only integer value
- (ii) No value
- (iii) Only real value
- (iv) Only decimal value

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( Turn over )



(i) How many steps are in the system development life cycle ?

(i) 4

(ii) 5

(iii) 6

(iv) 10

(j) Debugging is :

(i) Creating program code

(ii) Finding and correcting errors in the program code

(iii) Identifying the task to be computerized

(iv) Creating the algorithm

#### Group – B

#### (Long-answer Type Questions)

Answer any four questions of the following :

15×4 = 60

2. (a) What do you mean by software project ? How does it differ from any other project ?

(b) Define the triple constraint of project with the help of an example.

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(4)

Contd.

3. (a) Discuss the importance of a good time management.

(b) Explain waterfall model in detail.

4. (a) What is prototyping process model ? When is it used ?

(b) What do you mean by stakeholders ? Who may be the stakeholders in a software project ?

5. (a) What do you mean by Work Breakdown structure (WBS) in context to software project ?

(b) Describe the risk management process in detail.

6. (a) What do you mean by Work Breakdown structure in context to software project ?

(b) Explain the term "project scope" with a suitable example.

7. (a) What is PET/CPM ? Explain the differences between Critical Path Analysis and Critical Chain Scheduling.

(b) Write a short note on "Project Scheduling".

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(5)

(Turn over)