



**DV-003-004204**

Seat No. \_\_\_\_\_

**B. Sc. (IT) (Sem. - II) (CBCS) Examination**

**April / May - 2015**

**CS - 10 : SAD & SE**

**Faculty Code : 003**

**Subject Code : 004204**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks :70

**SECTION - I**

- (1) Which of the following symbols is used for process in DFD?  
(A) Square (B) Circle  
(C) Triangle (D) An open rectangle
- (2) ER diagram contain \_\_\_\_\_  
(A) Entity (B) Relationship  
(C) Cardinality (D) All of above
- (3) SDLC stands for \_\_\_\_\_  
(A) System Dependent Long Cycle  
(B) System Development Language Cycle  
(C) System Development Life Cycle  
(D) System Dependent Life Cycle
- (4) The first phase of SDLC is  
(A) Designing (B) Feasibility study  
(C) Coding (D) Testing
- (5) Following is not type of chart  
(A) Pie chart (B) Bar chart  
(C) Triangles chart (D) Line chart
- (6) The following is not output method  
(A) Report (B) Message  
(C) Document (D) Alarm
- (7) The following is the matrix of rows and columns  
(A) Decision Tree (B) Decision table  
(C) DFD (D) None
- (8) Which one is not a type of file organization?  
(A) Master file (B) Sequential file  
(C) Indexed file (D) Direct file

- (9) Software tools that provide automated support for system development process  
 (A) NOS (B) CASE  
 (C) CAM (D) none of above
- (10) Which model gives assurance of quick delivery of system?  
 (A) Spiral (B) Linear Sequential  
 (C) Incremental (D) RAD
- (11) How will you specify first condition and action in decision table?  
 (A) C1:A1 (B) C2:A2  
 (C) C0:A0 (D) C3:A3
- (12) DFD is also known as.....  
 (A) Insertion chart (B) Bubble chart  
 (C) Graphical chart (D) Physical chart
- (13) What is system?  
 (A) Collection of components working together to achieve a specific goal.  
 (B) Collection of components working differently to achieve a specific goal.  
 (C) Both a and b.  
 (D) Collection of components working together to achieve a different goal.
- (14) The following model is also known as linear sequential model  
 (A) Water fall model (B) RAD  
 (C) Incremental model (D) Spiral model
- (15) Which is not the sources of project request?  
 (A) Department manager (B) System analyst  
 (C) Operational manager (D) Senior manager
- (16) Difference between Decision - Tables and Decision Trees is (are)  
 (A) value to end user  
 (B) form of representation  
 (C) one shows the logic while other shows the process  
 (D) All of the above
- (17) The code used for the validation purpose is known  
 (A) Self checking code (B) Sequence code  
 (C) Alpha numeric code (D) Group classification code
- (18) What is the full form of TPS?  
 (A) Transaction process specification  
 (B) Transport processing system  
 (C) Transaction Processing system  
 (D) Transfer Processing System
- (19) The \_\_\_\_\_ symbol is used in a flowchart to represent a step that gets information from the user.  
 (A) Input/Output (B) Process  
 (C) Selection/repetition (D) Start/Stop
- (20) Meta data means  
 (A) Data Dictionary (B) Data about Data  
 (C) Meaningful Data (C) Very large data

**SECTION – II**

- 2. (A) Attempt any three from following :** **6**
- (1) What is ISO 9000?
  - (2) What is ER diagram?
  - (3) What is output? List out types of output.
  - (4) What is system? Explain its characteristics.
  - (5) What is IS?
  - (6) Given full form of the : (A) OOA&D                      (B) RMMM
- (B) Attempt any three from following :** **9**
- (1) Explain role & responsibility of system analyst.
  - (2) Differentiate between logical design & physical design.
  - (3) Differentiate between coupling and cohesion.
  - (4) Write short note on feasibility study.
  - (5) Explain data dictionary with example.
  - (6) What is file? Explain types of files.
- (C) Answer any two:** **10**
- (1) Explain fact-finding techniques in details.
  - (2) Explain 3Ps of Project Management
  - (3) What is software engineering ? Explain Spiral model.
  - (4) Write short note of SDLC.
  - (5) Explain DFD with appropriate example showing all notations of DFD.
- 3. (A) Attempt any three from following :** **6**
- (1) What is object? What is behaviour?
  - (2) What is decision table?
  - (3) Explain types of users in system.
  - (4) What is SQA?
  - (5) What is black-box testing?
  - (6) What is risk management?
- (B) Attempt any three from following:** **9**
- (1) Explain water fall model.
  - (2) Describe 3P's in project management.
  - (3) Explain software myths and reality.
  - (4) Explain HIPO.
  - (5) Write short note on input validation.
  - (6) Explain object, states and behavioural.
- (C) Answer any two:** **10**
- (1) Write short note on SRS.
  - (2) List out types of risk management and explain any two.
  - (3) Write short note on cost estimation techniques.
  - (4) Write short note on testing methods.
  - (5) Write short note on data dictionary.