

Seat No. : _____

N15-111

November-2014

B.C.A., Sem.-V

SEC 301 (1) : Software Project Management

Time : 3 Hours]

[Max. Marks : 70

1. (A) What is program ? Explain types of program. 7
OR
Define Stakeholder. Explain the categories of stakeholders.
(B) Which are the activities covered by Software Project Management ? Explain them in detail. 7
OR
(i) Explain Product Flow Diagram. 3
(ii) Give the difference between Software Project Management and other types of project. 4
2. (A) Explain Waterfall Model. 7
OR
Explain Albrecht Function Point Analysis.
(B) Explain Atern Process Model. 7
OR
(i) The project A has 6 inputs and 10 outputs. The new project B has 15 inputs and 23 outputs. Find out Euclidean Distance. 3
(ii) Define Prototype and Throw-away prototype. 4
3. (A) Draw the activity of node network diagram for the following problem, Find out critical path and total duration. 7

Activity	Duration (Days)	Precedents
A	4	–
B	2	A
C	5	A
D	3	A
E	4	D
F	3	D
G	3	C
H	3	E
I	2	F
J	6	B
K	5	–
L	5	A, K

OR

Explain labelling conventions of activity on node network.

- (B) Explain Risk Planning. 7
- OR**
- Explain Sociotechnical Model of risk.
4. (A) Explain slip chart. 7
- OR**
- Explain Fixed Price contract.
- (B) List out categories of resources and explain them in brief. 7
- OR**
- (i) Define 0/100, 50/50 and Milestone technique. 4
- (ii) Define open tendering process and restricted tendering process. 3
5. Answer the followings : 14
- (1) Full form of KLOC.
 - (2) Forecasts of _____ rates tend to be uncertain.
 - (3) _____ cost consisting of costs of putting the system into place, mainly any new hardware.
 - (a) Development (b) Overhead
 - (c) Setup (d) Operational
 - (4) _____ package is known as shrink-wrapped software ?
 - (a) Off-the-shelf (b) bespoke
 - (c) Customized-off-the-shelf (d) None of above
 - (5) $CPI = \frac{\quad}{\quad}$
 - (a) EV, AC (b) AC, PV
 - (c) AC, EV (d) EV, PV
 - (6) _____ is a method of reported progress by recording on the chart by shading activity bars.
 - (a) 0/75 (b) Gantt chart
 - (c) Timeline chart (d) Percentage
 - (7) The probability that a system will not be available at the time required or the probability that a transaction will fail is called _____.
 - (a) Availability (b) Failure on demand
 - (c) Mean time between failure (d) Support Activity
 - (8) PERT stands for _____.
 - (9) What is a Management ?
 - (10) Define Hammock activity.
 - (11) Write down Parkinson's Law.
 - (12) _____ is a method for calculating 'loss' in days rather than money.
 - (13) Effort = _____ * _____.
 - (14) Waterfall Model is also known as the _____ model.

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B.C.A., Sem.-V

SEC 301 (2) : Advanced Java

(New)

Time : 3 Hours]

[Max. Marks : 70

Instructions : (1) Draw diagrams wherever necessary.
(2) Start new question from new page.

1. (A) Answer the following :
 - (1) Explain file class in detail. **4**
 - (2) Explain with example : Reading data from a file. **3**

OR

 - (1) How can we write binary data to a file ? Explain.
 - (2) Explain in brief any three classes available for file I/O.

(B) Can we read/write objects to/from a file ? If yes then how ? **7**

OR

Explain with example writing records to a random access file.
2. (A) Answer the following :
 - (1) Explain any four methods of JFrame class. **4**
 - (2) What is the use of JFrame's set DefaultCloseOperation() method ? **3**

OR

 - (1) Explain with example : JScrollPane class
 - (2) Give difference between JFrame and JPanel.

(B) Answer the following :
 - (1) What is the use of JCheckBox class ? Explain with example. **4**
 - (2) Explain in brief any three with its event. **3**

OR

 - (1) Explain any four methods of JComboBox class.
 - (2) What is the use of getContentPane() method ?
3. (A) Answer the following :
 - (1) Explain BorderLayout with example. **4**
 - (2) Explain Adaptor class. **3**

OR

 - (1) Explain GridLayout with example.
 - (2) Can we use JPanel to increase the layout options ? If yes, how ?

- (B) Answer the following :
- (1) Explain Datagram Packet class with example. **4**
 - (2) Explain any three methods of MouseListener class. **3**

OR

- (1) Write a short note on Card Layout.
- (2) Explain InetAddress class with example.

4. (A) Answer the following :
- (1) Explain PreparedStatement with example. **4**
 - (2) What is the use of JDBC Driver ? **3**

OR

- (1) Explain executeQuery with example.
- (2) Write a short note on JDBC-ODBC Driver.

- (B) Explain in detail : Steps for JDBC Connection. **7**

OR

Explain with example how a user can insert and delete a record into/from a database.

5. Do as directed : **14**

- (1) _____ is the process of recreating an object in computer memory after it is retrieved from a file.
- (2) A _____ is a type of component that holds other components so that a user can treat a group of them as a single entity.
- (3) _____ method of File class returns the size of the file.
- (4) The _____ package is a collection of classes, interfaces, and methods used for database connectivity.
- (5) JDBC stands for _____.
- (6) _____ layout manager will arrange components in rows across the width of a container.
- (7) For getting a database result, the _____ object is required.
- (8) In a file, a file pointer is a automatically created variable that holds the byte number of the next file position to be used. (True/False)
- (9) Text is entered is an example of ActionListener. (True/False)
- (10) getSelectedIndex() method returns the currently selected item. (True/False)
- (11) For accessing the resources on the Internet, the URL class is used. (True/False)
- (12) For loading the JDBC-ODBC driver, the getConnection() method is used. (True/False)
- (13) The GridBagLayout manager allows the user to add components to precise locations within the grid. (True/False)
- (14) CLI stands for Call Level Interface. (True/False)