

Total No. of Questions : 12]

Nov-16

SEAT No. :

1364

P1588

[5061]-503

[Total No. of Pages : 2

T.Y.M.C.A.(Engg)
SOFTWARE ENGINEERING
(2013 Course)(Semester-V)(510903)

Time :3Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *Neat diagrams must be drawn wherever necessary.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Assume suitable data if necessary.*

Q1) a) Explain in detail Spiral Model of Software Development. [6]

b) Write a short note on: Personal Process Model [3]

OR

Q2) a) Explain in detail all the levels of CMMI with key process area. [6]

b) Write a short note on: Critical Software. [3]

Q3) a) What is Gantt Chart? Explain in brief. [5]

b) Write a short note on Risk Identification. [3]

OR

Q4) a) What do you mean by Work Breakdown Structure(WBS)? [5]

b) Explain any 3 Tools for managing project. [3]

Q5) a) What are the various factors for estimation of software cost? [4]

b) Write a note on : Process Improvement [4]

OR

Q6) a) What are the various project constraints in project mangement? [6]

b) What is Validation? [2]

Q7) a) Draw a diagram and explain the process of security risk assessment.[4]

b) What are the principle properties of Dependability? [4]

OR

P.T.O.

- Q8)* a) Write basic terminologies of Reliability? Explain with example. [4]
b) What is Hazard Identification and Hazard Assessment? [4]
- Q9)* a) What is mean by Service Engineering? [4]
b) Write the concept of SOA. [4]

OR

- Q10)* a) What do you mean by SAAS model? What are the benefits of SAAS Model? [4]
b) Explain the term: Client Server Computing [4]
- Q11)* a) Draw a diagram and Explain McCall's quality factors that affect the software quality. [6]
b) Define the following terms: [3]
i) Measure
ii) Measurement
iii) Metric

OR

- Q12)* a) Explain the metrics for source code. [6]
b) What is the purpose of Software Maintenance? Explain the maintenance metric. [3]



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Nov-16

[5061]-501

SEAT No. :

1364

[Total No. of Pages : 2

T.Y.M.C.A. (Engg.)

RECENT TECHNOLOGIES IN IT
(2013 Course) (Semester-V) (510901)

Time : 3 Hours]

[Max. Marks : 50

Instructions to candidates:

- 1) Attempt Q1.or Q2, Q3 or Q4, Q5or Q6, Q7or Q8, Q9or Q10, Q11or Q12.
- 2) Figures to the right indicate full marks.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Assume suitable data if necessary.

Q1) a) What is LAMP? Explain the characteristics and advantages of LAMP. [6] ✓

b) Write a short note on Configuring Apache web server. [3]

OR

Q2) a) Explain the process of installation and configuration of LAMP stack. [5]

b) Differentiate between Static and Dynamic contents. [4]

Q3) a) Explain the concept of RDBMS Technology with a suitable example. [4]

b) Explain how MYSQL database is managed? [4]

OR

Q4) a) Explain and differentiate between GET and POST methods. [4] ✓

b) Design a Form which accepts the input from the user for online Railway reservation system. [4] ✓

Q5) a) Write PHP code to accept Passport registration information from the Customer, store it into the database and display the customer information. [6]

b) Explain Array_sum & Array_flip functions in PHP. [2]

OR

Q6) a) Explain the concept of Splitting and merging of Array with a suitable example. [6] ✓

b) Explain any 2 Data and Time Functions in PHP. [2] ✓

P.T.O.

- Q7)** a) Explain the life cycle of a function in PHP. [4] ✓
b) Write a short note on object constructors and destructors. [4] ✓

OR

- Q8)** a) Explain the concept of class inheritance with a suitable example. [4]
b) Explain the concept of abstract classes with a suitable example. [4]

- Q9)** a) Explain how a file is created, read and deleted with a suitable example. [4]
b) Explain the operations of a file Opening writing with suitable example. [4] ✓

OR

- Q10)** a) Explain the file connections HTTP fopen() and FTP fopen() [4]
b) Explain the concept Socket functions in detail. [4]

- Q11)** a) How a session is created and Handled? How does a session works? [5] ✓
b) Explain in detail setcookie() function with a suitable example. [4] ✓

OR

- Q12)** a) Explain how the session variables are encoded and decoded? [5]
b) Write a short note on Cookie handling. [4]



Q8) a) What is integration testing? Explain its types.

[5]

b) Write note on Regression testing.

[3]

Q9) a) Explain Developer/Tester support for Defect Repository.

[5]

b) Explain defect classes.

[3]

assume suitable data, if necessary

Q1) Explain Quality, Quality Assurance and Quality Control.

[8]

OR

Q2) What is process improvement? Explain Six sigma.

[8]

Q3) Write test plan for coffee vending machine.

[8]

OR

Q4) Explain test case with example.

[8]

Q5) a) Explain with suitable example code complexity testing.

[5]

b) Explain positive and negative testing.

[4]

OR

Q6) a) Explain with suitable example boundary value analysis and equivalence partitioning.

[6]

b) Write note on unit testing.

[3]

Q7) a) What is usability and accessibility testing?

[4]

b) Explain scenario testing.

[4]

OR

P.T.O.

Q8) a) What is integration testing? Explain its types.

Top 2000
Bottom 1000

[5]

b) Write note on Regression testing.

[3]

Q9) a) Explain Developer/Tester support for Defect Repository.

[5]

b) Explain defect classes.

[3]

OR

Q10) a) What is defect? Explain origins of defect.

[5]

b) Write note on defect repository.

[3]

Q11) a) Differentiate between manual testing and automated testing.

[5]

b) Write note on Selenium IDE.

[4]

OR

Q12) What is automation testing? Explain different automation tools for software testing. [9]

EEE

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Nov-16
[5061]-503

SEAT No. : 1364

[Total No. of Pages : 2

T.Y.M.C.A.(Engg)
SOFTWARE ENGINEERING
(2013 Course)(Semester-V)(510903)

Time :3Hours]

[Max. Marks : 50

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b) Explain the term: Client Server Computing [4]
- Q11)* a) Draw a diagram and Explain McCall's quality factors that affect the software quality. [6]
b) Define the following terms: [3]
i) Measure
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iii) Metric

OR

- Q12)* a) Explain the metrics for source code. [6]
b) What is the purpose of Software Maintenance? Explain the maintenance metric. [3]



Total No. of Questions :12]

NOV-16

SEAT No. :

P1589

[5061]-504

[Total No. of Pages : 2

T.Y.M.C.A. (Under Engineering Faculty)
DATA WAREHOUSING DATA MINING BUSINESS INTELLIGENCE
(2013 Pattern) (Semester - I)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Assume suitable data, if necessary.

Q1) a) Discuss the purpose of data warehouse. Also explain the 3 models of data warehouse based on architecture. [6]

b) What is data cleaning? [3]

OR

Q2) a) Explain data pre processing in detail. [6]

b) Differentiate between facts and dimensions. [3]

Q3) a) Explain the applicability of data mining in various fields. [6]

b) What are data objects and attribute types? [2]

OR

Q4) a) Explain data visualization. [6]

b) What is meant by data similarity? [2]

Q5) Explain the concept of classification with proper example. [8]

OR

Q6) Explain apriori algorithm with the help of an example. [8]

P.T.O.

- Q7) a) Explain various components of BI. [4]
b) Differentiate between OLTP and OLAP. [4]

OR

- Q8) a) Explain the various components of a warehouse. [6]
b) What is analytical user requirements? [2]

- Q9) a) Explain the various BI Architectures. [6]
b) Differentiate between ROLAP and HOLAP. [3]

OR

- Q10) a) Explain data architecture strategy. [6]
b) Differentiate between MOLAP and ROLAP. [3]

- Q11) Write a note on BIRT. [8]

OR

- Q12) Explain the various layout in BIRT. [8]



Total No. of Questions : 12]

NOV-16

SEAT No. : 1364

P1591

[5061]-506

[Total No. of Pages : 2

T.Y.M.C.A.(Faculty of Engineering)
MOBILE COMPUTING
(2013 Course)(Semester-V) (510905)

Time :3Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Solve either of Question 1 or 2, 3 or 4,5 or 6,7 or 8,9 or 10,11 or 12 in same answer sheet.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data if necessary.

SECTION-I

Q1) Differentiate between 1G,2G and 3G technologies.

[9] / 6

OR

Q2) What is the concept of cell broadcast service? Explain the concept of Handover.

[9]

Q3) Explain the concept of Wireless LAN

[8]

OR

Q4) Explain the concept of Data broadcasting.

[8] / 10

Q5) a) Explain CODA File System and its features.

[4]

b) Explain how the channel access scheme and acknowledgement for Datagram are used in mobile wireless network

[4]

OR

Q6) a) Explain Quality of Service(QoS) in mobile wireless networks.

[4] / 2

b) Disconnected operation is the solution to the Disconnected Client in distributed system. Explain.

[4] / 2

SECTION-II

Q7) a) Explain MIDlet lifecycle in J2ME.

[4]

b) What are the Application components provided in Android OS?

[4]

OR

P.T.O.

Q8) (a) What is the Record Management System? How the records are handled in J2ME? [4]

b) Explain about UI Layouts of Android. State the types of Layouts. Explain in brief any two of them. [4]

Q9) a) Explain File System Structure in Android. [4]

b) Define Dialogs, their use. How Dialogs are structured? [4]

OR

Q10) (a) Explain Location Based Service. [4]

b) Write a program for accessing user's Current Location. (Assume *GPSTracker.java* file is available with you.) [4]

Q11) Write a short note on Content Provider. How can one store data in Android? [9]

OR

Q12) Explain SQLite Database. Create database for Student Details and perform following operations on it- [9]

a) *insert*

b) *delete()* &

c) *show()*



Total No. of Questions :12]

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SEAT No. :

P1587

[5061]-502

[Total No. of Pages :2

T.Y.M.C.A. (Under Engineering Faculty)
SOFTWARE TESTING AND QUALITY ASSURANCE
(2013 Course) (Semester - V) (510902)

Time : 3 Hours]

[Max. Marks :50

Instructions to the candidates:

- 1) *Neat diagrams must be drawn wherever necessary.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Use of probability table, electronic pocket calculator is allowed.*
- 4) *Assume suitable data, if necessary.*

Q1) Explain Quality, Quality Assurance and Quality Control. [8]

OR

Q2) What is process improvement? Explain Six sigma. [8]

Q3) Write test plan for coffee vending machine. [8]

OR

Q4) Explain test case with example. [8]

Q5) a) Explain with suitable example code complexity testing. [5]

b) Explain positive and negative testing. [4]

OR

Q6) a) Explain with suitable example boundary value analysis and equivalence partitioning. [6]

b) Write note on unit testing. [3]

Q7) a) What is usability and accessibility testing? [4]

b) Explain scenario testing. [4]

OR

P.T.O.

Top concern
Bottom less

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- b) Write note on Regression testing. [3]
- Q9) a) Explain Developer/Tester support for Defect Repository. [5]
- b) Explain defect classes. [3]

OR

- Q10) a) What is defect? Explain origins of defect. [5]
- b) Write note on defect repository. [3]
- Q11) a) Differentiate between manual testing and automated testing. [5]
- b) Write note on Selenium IDE. [4]

OR

- Q12) What is automation testing? Explain different automation tools for software testing. [9]

EEE