

(3 Hours)

[Total Marks : 100]

**N.B. :** (1) Question No. 1 is compulsory.(2) Attempt any **four** questions out of remaining **six** questions.(3) **All** questions carry **equal** weightage.(4) **Figures** indicate **right** marks.(5) Assume **data** wherever **necessary**.

1. (a) Discuss incremental process model and evolutionary process model with reference to the suitability of the project. **10**
- (b) Explain how size oriented metrics differs from function oriented metrics. Give example when each are recommended. **10**
2. (a) Give software requirement specification (SRS) for developing a software for payroll management system. **10**
- (b) Workout data flow diagram and control flow diagram in detail respect to payroll management system. **10**
3. (a) Explain the various levels of quality assurance in software Engineering with reference to different parameters of quality. **10**
- (b) What is configuration audit? **10**  
How change in managed in web applications?
4. (a) Discuss and compare TDD (Test driven development) and DDT (design driven testing). **10**
- (b) What activities are carried out during FTR and status reporting and why? **10**
5. (a) List down and explain the activities carried out during scheduling and tracking. **10**
- (b) Discuss the cases where change control and version control are required with its purposes. **10**
6. (a) Compare the conventional approach and object oriented approach to software development with suitability. **10**
- (b) What is requirement of risk analysis. What are the possible risks that may affect the scheduling? How you can overcome the same? **10**
7. Write short note on:- **20**
  - (a) SCRUM and CRYSTAL
  - (b) Design concepts and principles
  - (c) Coupling and cohesion
  - (d) Gantt chart

TE (IT) PMRC  
(sem VI)

13/12/13  
Nov/Dec 2013

PR D Nov. 13

Con. 9234-13.

LJ-11668

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**N.B.:** (1) Question No. 1 is **compulsory**.

(2) Attempt any **four** questions out of remaining **six** questions.

1. (a) Differentiate between J2ME, J2EE and J2SE. Explain Web Container. **10**  
(b) Differentiate between List and Choice Group. **5**  
(c) Create a MIDP application to check and display whether string is palindrome or not on mobile screen. **5**
2. (a) Create a login form using Servlet. Login form will contain userid and password and display in textbox the output as valid user or not. If user fails to authenticate in three attempts then he will be not be allowed to re-Login further. **10**  
(b) What are JDBC drivers? Describe each type in short. **10**
3. (a) Explain EJB Centric and Web Centric approach of building Web application. **10**  
(b) Create MIDP application to display warning alert when customer try to perform. Withdraw and his/her account balance is less than minimum balance. **10**
4. (a) Differentiate between configuration and profile. Explain J2ME profile. **10**  
(b) Explain MIDlet life cycle. State the need of an Obfuscator. **10**
5. (a) Write a MIDP application to translate a filled curve of height 30, width 50, start angle 180 degree, arc angle 180 degree from position 0,0 on mobile screen by 45,45 using low level API. **10**  
(b) Write a MIDP application to create calculator to perform operation like add, subtract, multiply and divide using List. **10**
6. (a) What is MIDlet suite ? How security is handled in MIDlet suite ? **10**  
(b) Explain event handling and its type in J2ME. **10**
7. Write short notes on following :- **20**
  - (i) AJAX
  - (ii) JavaMail
  - (iii) CustomItem
  - (iv) OBEX .

(3 Hours)

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- N.B. :** (1) Question No. 1 is **compulsory**.  
(2) Attempt any **four** questions from remaining **six** questions.

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| 1. (a) Explain different kinds of threats to information security.                 | 5  |
| (b) Give difference between symmetric and asymmetric Cryptography.                 | 5  |
| (c) Explain types of malicious code.   | 5  |
| (d) Explain honeypots.   | 5  |
| 2. (a) Explain Advanced Encryption Standard in detail.                             | 10 |
| (b) Explain control of access of general objects in operating system.              | 10 |
| 3. (a) Explain public key infrastructure.  | 5  |
| (b) Explain covert-channel.  | 5  |
| (c) Explain Diffie – Hellman key exchange algorithm.                               | 10 |
| 4. (a) What is firewall ? Describe types of firewalls and their limitations.       | 10 |
| (b) Explain risk analysis in detail.   | 10 |
| 5. (a) Explain RSA algorithm.  | 5  |
| (b) Explain digital signature.   | 5  |
| (c) Explain Kerberos in detail.  | 10 |
| 6. (a) List and explain the contents of security plan for administrative security. | 10 |
| (b) Explain DOS attacks in Networks.   | 10 |
| 7. Write short notes on the following :—   |    |
| (a) ARP Poissioning  | 5  |
| (b) Session hijacking  | 5  |
| (c) Digital certificate  | 5  |
| (d) CAPTCHA.   | 5  |
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