

Reg. No. : .....

**D 2679**

**Q.P. Code : [07 DMCA 15]**

(For the candidates admitted from 2007 onwards)

**M.C.A. DEGREE EXAMINATION, MAY 2013.**

**Third Year**

**Elective — SOFTWARE PROJECT MANAGEMENT**

**Time : Three hours**

**Maximum : 100 marks**

**Answer any FIVE questions**

**Each question carries 20 marks.**

**(5 × 20 = 100)**

1. Discuss the prototype development phase and their maintenance. (20)
2. Discuss the Risk management cycle, tools and their techniques. (20)
3. Discuss the metrics for the estimation processes. (20)
4. (a) Discuss the important activities that software project managers perform during project planning. (10)  
(b) Discuss about managing projects for the internet. (10)

5. (a) Discuss the metrics for the maintenance phase. (10)
  - (b) Discuss the metrics for the requirements phase. (10)
  6. Discuss in detail about the design and development phases. (20)
  7. (a) Discuss the challenges in building Global teams. (10)
  - (b) State some model of execution of effective management technique for managing Global Teams. (10)
  8. With a neat diagram briefly explain the project life cycle model. (20)
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**D 2680**

**Q.P. Code : [07 DMCA 16]**

(For the candidates admitted from 2007 onwards)

M.C.A. DEGREE EXAMINATION, MAY 2013.

Third Year

Elective: WAP AND XML

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

Each question carries 20 marks.

(5 × 20 = 100)

1. (a) Discuss in detail about the key services for the mobile internet. (10)  
(b) Write about WAP architecture. (10)
2. (a) Explain about markup basics. (10)  
(b) Discuss on basic content of WML (10)
3. (a) Discuss in detail about controls in WML. (10)  
(b) Write a note on application security. (10)

4. (a) Describe about variables in WML (10)  
(b) Discuss on miscellaneous markup. (10)
5. (a) Explain about computer terminals versus mobile terminals. (10)  
(b) Discuss on user interface design guidelines. (10)
6. (a) Explain in detail about WTA client framework. (10)  
(b) Discuss about application creation toolbox. (10)
7. (a) Describe about Beyond browsing in mobile internet. (10)  
(b) Explain about the components of WAP standard. (10)
8. (a) Discuss in detail about the network infrastructure services supporting WAP clients. (10)  
(b) Discuss about the relationships of WAP to other standards. (10)

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**D 2681**

**Q.P. Code : [07 DMCA 17]**

(For the candidates admitted from 2007 onwards)

**M.C.A. DEGREE EXAMINATION, MAY 2013.**

**Third Semester**

**Elective – DIGITAL IMAGE PROCESSING**

**Time : Three hours**

**Maximum : 100 marks**

**Answer any FIVE questions.**

**Each question carries 20 marks.**

**(5 × 20 = 100)**

1. (a) Give any five applications of Digital image processing.  
(b) Write short notes on Image sending and acquisition.
2. (a) Explain various gray scale transformations in detail.  
(b) Discuss any two spatial enhance methods.
3. (a) What is meant by image restoration? Give its applications.  
(b) Discuss any two noise reduction techniques.

4. (a) What is meant by PSNR function? Give its importance.  
(b) Discuss various geometric transformation in detail.
5. Explain the following
  - (a) Image edge detection
  - (b) Minimum mean square error filtering
  - (c) Frequency domain filtering.
6. (a) Discuss any one image compression method in detail.  
(b) Discuss the various elements of Information Coding theory.
7. Explain the following
  - (a) Lossy compression
  - (b) Image compression standards
  - (c) TIFF, BMP and JPEG file formats.
8. (a) Explain region based segmentation with an example.  
(b) Discuss edge linking in detail.

3. Discuss on the following Clustering Algorithms.
- (a) Similarity and Distance Measures (10)
  - (b) Hierarchical Algorithm. (10)
4. Describe in detail the incremental discovery of association rules along with clustering algorithms.
5. Discuss on the various OLAP tools.
6. Discuss on:
- (a) Neural network based algorithm (10)
  - (b) Rule-based algorithm. (10)
7. Describe with neat sketch the Data warehousing architecture.
8. Give an account on
- (a) Content-metadata distribution of data tools. (10)
  - (b) Applications of Data Mining. (10)

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**D 2678**

**Q.P. Code : [07 DMCA 14]**

(For the candidates admitted from 2007 onwards)

M.C.A. DEGREE EXAMINATION, MAY 2013.

Third Year

DATA MINING AND DATA WAREHOUSING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

Each questions carries 20 marks.

(5 × 20 = 100)

1. (a) State and Explain the Important data mining Metrics. (14)
- (b) Discuss on the Data mining issues. (6)
2. Explain the following Classification Algorithms.
- (a) Distance based Algorithm. (10)
- (b) Decision tree based Algorithm. (10)

4. (a) Elaborate transaction flow testing and techniques. (10)  
(b) Explain basics, strategies, applications, tools and effectiveness of flow testing and Syntax testing. (10)
5. (a) Briefly discuss about logic based testing and decision tables. (10)  
(b) What is the use of KV chart? With an example explain the 3 variable KV chart. (10)
6. (a) Explain state graphs aid transition testing. (10)  
(b) Write some notes on state testing metrics and complexity. (10)
7. (a) With a suitable example explain how to convert a specification into a state graph. (10)  
(b) Explain the Node reduction algorithm with their application. (10)
8. (a) Explain the art of debugging. (10)  
(b) Briefly explain integration testing, validation testing and system testing. (10)

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**D 2677**

**Q.P. Code : [07 DMCA 13]**

(For the candidates admitted from 2007 onwards)

**M.C.A. DEGREE EXAMINATION, MAY 2013.**

**Third Year**

**SOFTWARE TESTING**

**Time : Three hours**

**Maximum : 100 marks**

**Answer any FIVE questions.**

**All questions carry equal marks.**

**(5 × 20 = 100)**

1. (a) Discuss some dichotomies and consequence of bugs in software testing. (10)  
(b) Explain the three distinct kinds of testing on software system. (10)
2. (a) Briefly discuss about the taxonomy of bugs. (10)  
(b) Write some notes on playing pool and consulting oracles. (10)
3. (a) Explain path sensitizing and path instrumentation. (10)  
(b) Give some applications of path testing. (10)