**K.G.R.L COLLEGE OF P.G COURSES (A): DEPARTMENT OF MCA**

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**III SEMESTER II MID EXAMINATIONS**

# 02301: INFORMATION SECURITYANDCRYPTOGRAPHY

Time: 75Minutes Max.Marks:15M

# SECTION-A

1. Answer all the Questions

1.(a) What is authentication and discuss different authentication mechanisms? (OR) (1X5=5)

(b) What is Virus? And discuss different types of Viruses?

2.(a) Discuss about SSL-SHTTP-TSP-SET Protocols.

(OR) (1X5=5)

(b) What is Firewall and discuss different types of Firewalls?

# SECTION-B

1. Answer all the Questions

(2X21/2=5M)

3.(a) Biometrics Authentication

(b) Intruders

(c) WAP security

(d) Virtual Private Networks

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**III SEMESTER II MID EXAMINATIONS**

**02302: BIGDATAANALYTICS**

Time: 75Minutes Max.Marks:15M

# SECTION-A

1. Answer all the Questions

1. (a) Discuss any three machine learning algorithms which will use the features of

MLlib in Spark.

(OR) (1X5=5)

(b) How do you join data from different sources in Map reduce programming?

Show with Matrix Multiplication example.

2. (a) Explain about Shortest Path , Friends-of-Friends , Page Rank, Bloom Filters Algorithms

(OR) (1X5=5)

(b) What are Resilient Distributed Dataset. Explain how to create pairs in RDDs

and transformations that are carried in them.

# SECTION-B

1. Answer all the Questions (2X21/2=5M)

3. (a) Streaming features, Streaming Fundamentals

(b) Chaining Map Reduce jobs

(c) Explain the features of Spark SQL

(d) Spark SQL

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**III SEMESTER II MID EXAMINATIONS**

**02303: OBJECT ORIENTED SOFTWAREENGINEERING**

Time: 75Minutes Max.Marks:15M

# SECTION-A

1. Answer all the Questions
2. (a) Define Software Architecture? Explain Architecture Patterns?

(OR) (1X5=5)

(b) Write and Explain about Design patterns?

2. (a) What is Software Project management? Explain about Software

Engineering teams?

(OR) (1X5=5)

(b) Explain about Waterfall, Phased Released, Spiral models?

# SECTION-B

II. Answer all the Questions (2X21/=5M)

3. (a) Principles Leading to Good Design

(b) Read-Only Interface and Proxy Patterns

(c) Timing and Co-ordination

(d) Tracking and Monitoring

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**III SEMESTER II MID EXAMINATIONS**

**02304: WEBTECHNOLOGIES**

Time: 75 Minutes Max.Marks:15M

SECTION-A

1. Answer all the Questions
2. (a) Explain about Dynamic HTML and Common Gateway Interface (CGI)

(OR) (1X5=5)

(b) Explain about Active Web Pages and Active X Controls

1. (a) Explain about CORBA, Java Remote Method Invocation (RMI)?

(OR) (1X5=5)

(b) Explain about EDI,XML

SECTION-B

1. Answer all the Questions (2X21/2=5M)

3 . (a) Java Sever pages

(b) Java Beans

(c) Limitations of Mobile Devices

(d) The WAP Stack

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**III SEMESTER II MID EXAMINATIONS**

**02304: CLOUD COMPUTING**

Time: 75Minutes Max.Marks:15M

SECTION-A

1. Answer all the Questions
2. (a) Write about Developing Applications like Google, Microsoft, Intuit QuickBase.

(OR) (1X5=5)

(b) Explain about Virtualization in Your Organization.

2. (a) Explain about Cloud Services Aimed at the Mid- Market.

(OR) (1X5=5)

(b)Write about Best Practices and the Future of Cloud Computing.

SECTION-B

II. Answer all the Questions (2X21/=5M)

2

3 (a) Troubleshooting

(b) Local Clouds and Thin Clients

## (c) How Cloud Computing Might Evolve.

(d) Migration

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**III SEMESTER II MID EXAMINATIONS**

**02306: FOUNDATIONS OF DATASCIENCE**

Time: 75Minutes Max.Marks:15M

SECTION-A

1. Answer all the Questions
2. (a)Explain R Language: Reading and getting data into R, viewing named objects, Types of Data items.

(OR) (1X5=5)

(b) Explain the Binomial, Poisson in Probability Distribution.

2.(a) Explain graphical analysis in Data Science.

(OR) (1X5=5)

(b) Explain Documentation and deployment in data science with examples?

SECTION-B

II. Answer all the Questions

(2X21/2=5M)

3. (a) saving your work in R.

(b) data distribution.

. (c) Matrix plots

(d) graphics parameters in R Language