**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 Cloud Computing Overview and Computing Services?

(OR) (1X5=5)

(b) Explain about Google, EMC, NetApp,Microsoft,Amazon, Salesforce.com

1. (a) What is Cloud Storage? Explain about Cloud Storage Providers,Standards.

(OR) (1X5=5)

(b)Write about Software plus Services and Mobile Device Integration?

SECTION-B

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

2

3. (a) Intranets and the Cloud

(b) Benefits, Limitations in Cloud

(c) Web APIs, Web Browsers

(d) Driving Forces

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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 concepts of relational database in data science with examples.

(OR) (1X5=5)

(b) Explain the concept of managing data in data science with examples.

1. (a) Explain modeling methods in data science with examples.

(OR) (1X5=5)

(b) Explain linear and logistic regression in data science with examples?

SECTION-B

II. Answer all the Questions

(2X21/2=5M)

3. (a) Data science process

(b) Exploring data

. (c) Machine learning tasks on modeling.

(d) k-means algorithms.