

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA
Model Question Paper
(1505701) BIG DATA TECHNOLOGIES
B.Tech. VII Semester (CSE) (R15) Degree Examinations

Time: 3 Hrs.

Max. Marks: 70

Note: Answer any **FIVE** questions choosing **ONE** question from each unit.
All questions carry **Equal** marks.

UNIT I

1. a) Define Hadoop system and compare to other systems. (7M)
b) Explain Linux refresher. (7M)

(OR)

2. a) Discuss in detailed about history of Hadoop. (7M)
b) Explain about VMware installation of Hadoop. (7M)

UNIT II

3. a) Write notes on command line interface to HDFS. (7M)
b) Explain about java interface to Hadoop. (7M)

(OR)

4. a) Write the java program in Hadoop to read and write the files. (7M)
b) Explain any two querying file system methods. (7M)

UNIT III

5. a) Distinguish between the old and new versions of Hadoop API for mapreduce. (7M)
b) Explain about analyzing data with Hadoop. (7M)

(OR)

6. a) Write notes on MRUnit with WRITE operation. (7M)
b) How to run the distributed mapreduce programs. (7M)

UNIT IV

7. a) Explain job submission and initialization of mapreduce. (7M)
b) What is difference between map side and reduce side joins. (7M)

(OR)

8. a) How to progress and status updates of mapreduce. (7M)
b) Explain shuffle and sort on map and reducer side. (7M)

UNIT V

9. a) Explain the architecture of HIVE with a neat sketch. (7M)
b) Explain Hbasis and how to implement it. (7M)

(OR)

10. a) How to compare the traditional databases. (7M)
b) Explain about java and mapreduce clients. (7M)

K.S.R.M COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

Model Question Paper

(1505702) CLOUD COMPUTING

B.Tech VII Semester (CSE) (R15) Degree Examination

Time: 3 Hrs

Max. Marks: 70

Note: Answer any **FIVE** questions choosing **ONE** question from each unit.

All questions carry **Equal** marks

UNIT-I

1. Explain 5-4-3 principles of Cloud Computing with appropriate diagrams. (14M)

(OR)

2. a) Explain Cloud Ecosystem with a neat diagram. (7M)
b) List requirements for Cloud Services and explain. (7M)

UNIT-II

3. a) Discuss Cloud architecture with appropriate diagram. (7M)
b) Explain the evolution of cloud applications. (7M)

(OR)

4. a) How to manage the cloud infrastructure? Explain. (7M)
b) Explain the phases of cloud migration. (7M)

UNIT-III

5. a) Discuss characteristic, advantage and disadvantages of private cloud. (7M)
b) Explain the difference between outsourced and on-Premise community cloud. (7M)

(OR)

6. a) Explain the characteristics of Paas. (7M)
b) Discuss the suitability of IaaS. (7M)

UNIT-IV

7. a) Explain different cloud application development platforms. (7M)
b) Discuss different perspectives on SaaS development. (7M)

(OR)

8. a) What are the new challenges of software development in cloud. (7M)
b) Explain Cloud-Aware Software development using PaaS technology. (7M)

UNIT-V

9. Discuss the overview of Data center environment. (14M)

(OR)

10. a) Explain how Amazon Web Services support cloud computing. (7M)
b) Discuss Captiva Cloud Toolkit by EMC. (7M)

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA
Model Question Paper
(1505604) ARTIFICIAL INTELLIGENCE
B.Tech. VII Semester (CSE) (R15) Degree Examinations

Time: 3 Hrs.

Max. Marks: 70

Note: Answer any **FIVE** questions choosing **ONE** question from each unit.

All questions carry **Equal** marks.

UNIT-I

1. a) What is an AI technique and Discuss with one example. (7M)
- b) Discuss production system characteristics. (7M)

(OR)

2. Discuss A* Algorithm with one suitable example. (14M)

UNIT-II

3. Explain in detail about knowledge representation issues. (14M)

(OR)

4. Explain in detail about Resolution in predicate logic. (14M)

UNIT-III

5. Explain in detail about JTMS and ATMS. (14M)

(OR)

6. Explain in detail about Bayesian Networks. (14M)

UNIT-IV

7. Explain in detail about Semantic nets with examples. (14M)

(OR)

8. Discuss primitive actions provided in the various sources on conceptual dependency,
and also show a CD representation of the following sentences.

- i. John ate ice cream with a spoon.
- ii. John took the book from Mary. (14M)

UNIT-V

9. Explain in detail about Mini Max search technique and also discuss alpha beta cutoff. (14M)

(OR)

10. a) Explain in detail about various components of the Natural Language Understanding process. (7M)
- b) Explain in detail about knowledge acquisition in Expert system. (7M)

K.S.R.M COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA
Model Question Paper

(1505704) SOFTWARE TESTING

B.Tech VII Semester (CSE) (R15) Degree Examinations

Time: 3Hrs

Max.Marks:70

Note: Answer any **FIVE** questions choosing **ONE** question from each unit.

All questions carry **Equal** marks.

UNIT-I

1. a) What is Testing? Write about goals of testing? (7M)
b) Explain the consequences of bugs in detail? (7M)

(OR)

2. a) Explain the applications of path testing? (7M)
b) Explain path sensitizing and path instrumentation? (7M)

UNIT- II

3. a) Explain node reduction procedure in detail. (7M)
b) Explain regular expression in flow anomaly detection (7M)

(OR)

4. Explain the different strategies in dataflow testing? (14M)

UNIT-III

5. a) Explain decision tables in detail? (10M)
b) Write about path expressing? (4M)

(OR)

6. Explain Nice and Ugly domains in detail? (14M)

UNIT-IV

7. What is state graph? Differentiate between good and bad state graph? (14M)

(OR)

8. Explain the transaction flow testing techniques in detail? (14M)

UNIT -V

9. a) Describe the basic principles of graph matrix? (4M)
b) Explain node reduction algorithm (10M)

(OR)

10. Explain power of a matrix in detail? (14M)

K.S.R.M COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA
Model Question Paper

(1505705) COMPUTER GRAPHICS
(CBCC-III)

B.Tech VII Semester (CSE) (R15) Degree Examinations

Time: 3Hrs

Max.Marks:70

Note: Answer any **FIVE** questions choosing **ONE** question from each unit.

All questions carry **Equal** marks

UNIT-I

1. a) What is Presentation Graphics and explain how Graphics is used in Education and Training. (7M)
- b) Write about Graphical user Interfaces. (7M)

(OR)

2. a) Explain Raster scan Systems? (10M)
- b) What is Graphics Software? (4M)

UNIT- II

3. a) What is Solid Filling? (4M)
- b) Explain about scan converting circles? (10M)

(OR)

4. a) What is Clipping Lines. (4M)
- b) Explain Sutherland- Hodgman Polygon Clipping algorithm. (10M)

UNIT-III

5. a) Write about 2D transformations. (7M)
- b) Write about Matrix representation of 3D Transformations. (7M)

(OR)

6. Explain in Detail about Polygon Meshes. (14M)

UNIT-IV

7. What is Projections. Explain Spatial –Partitioning Representations. (14M)

(OR)

8. a) What is Chromatic Color. (2M)
- b) Write any 3 Color Models for Raster Graphics. (12M)

UNIT -V

9. a) What is Ambient Light. (2M)
- b) Explain about Constant Shading and Interpolated Shading. (12M)

(OR)

10. Write about Animation languages and mention the Basic Rules of Animation. (14M)

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA
Model Question Paper
(1505708) INTERNET OF THINGS

B.Tech. VII Semester (CSE) (R15) Degree Examinations

Time: 3 Hrs.

Max. Marks: 70

Note: Answer any **FIVE** questions choosing **ONE** question from each unit.

All questions carry **Equal** marks.

UNIT-I

1. a) Write about IoT Protocols. (7M)
- b) Explain IoT Communication Models. (7M)
- (OR)**
2. Explain in detail about IoT levels and Deployment Templates. (14M)

UNIT-II

3. a) Write about IoT applications on Home Automation and Cities domain. (7M)
- b) List and explain IoT applications used for Industries and Agriculture domain. (7M)
- (OR)**
4. Determine the various communication models that can be used for weather monitoring system. Explain the IoT applications used for Environment domain. (14M)

UNIT-III

5. a) What are the differences and similarities between IoT and M2M. (7M)
- b) Write about Network Function Virtualization (NFV). (7M)
- (OR)**
6. Explain IoT Design Methodology in detail. (14M)

UNIT-IV

7. a) Explain Python Data types and Data structures. (7M)
- b) Explain Control Flow Statements in Python. (7M)
- (OR)**
8. a) Explain File handling in python. (7M)
- b) Write about Functions and Modules in python. (7M)

UNIT-V

9. What is an IoT device? Explain basic building blocks of an IoT device. (14M)
- (OR)**
10. Write about Raspberry Pi board and installation of Linux on Raspberry Pi. (14M)

K.S.R.M. College of Engineering (Autonomous): KADAPA**B.TECH VII SEM EEE (R15) Model Question Paper****Electrical and Electronics Engineering****Sub: Management Science**

Time: 3Hours

Max. Marks: 70

Answer FIVE questions, choosing ONE question from each Unit.

All questions carry equal marks.

UNIT - I

1. Explain principles of management as outlined by Henry Fayol. 14M

(Or)

2. (a) Explain and evaluate the process of scientific management. 7M
(b) Distinguish line and line and staff organizations. 7M

UNIT - II

3. (a) Discuss the essential steps in corporate planning through a flow chart 7M
(b) What do you understand by SWOT analysis? Illustrate it. 7M

(Or)

4. What do understand by plant layout? Explain its systems and evaluate the same. 14M

UNIT - III

5. Explain the stages in manpower planning function. 14M

(Or)

6. (a) Write short note on EOQ and ABC analysis. 7M
(b) What is the difference between job evaluation and merit rating 7M

UNIT - IV

7. Define Work Study. How do you carry it out? 14M

(Or)

8. Explain the concept of statistical control. Explain how can you construct charts for the variables

UNIT - V

9. Assuming that the following expected time normally distributed. You are required to

- a) Construct the network diagram
b) Find the average time
c) Determine the critical path and find out the project duration 14M

Activity	Optimistic time(t_o)	Pessimistic time(t_p)	Most likely time(t_m)
1-2	2	5	14
1-3	9	12	15
2-4	5	14	17
3-4	2	5	8
4-5	6	6	12
3-5	8	17	20

(Or)

- b) Write short on: a) PERT versus CPM 7M
c) Cost slope, direct costs and indirect costs. 7M