B.Tech VII Semester End Examinations, November 2023
FUNDAMENTALS OF AR/VR (20APE0512) QIRUSA0505
(Computer Science and Engineering)

Time: 3 Hours | Max. Marks: 70

PART-A
(Compulsory Question)

(10 X 2 = 20 M)

Answer the following.

		Unit	Marks
1	a) Define Hand tracking.	I	(2 M)
	b) List the five sensory principles.	I	(2 M)
	c) List the VR Tools for creating 3D art.	II	(2 M)
	d) Write a short notes on Tilt Brush.	II	(2 M)
	e) Brief the role of Game Engines in AR/VR.	III	(2 M)
	f) What is meant by VRTK?	III	(2 M)
	g) What is webXR.	IV	(2 M)
	h) List the data visualization challenges in XR?	IV	(2 M)
	i) What is Parkinson's experiment.	V	(2 M)
	j) List the applications of VR/AR Health Technology.	V	(2 M)

PART-B

(5 X 10 = 50 M)

(Answer One FULL Question from each Unit; All questions carry EQUAL marks)

UNIT-I

2 Illustrate the types of Common HCI Modalities. (10 M)

(OR)

3 Differentiate Hand Tracking and Hand Pose Recognition. (10 M)

UNIT-II

4 Discuss the Introduction of 3D Art Optimization. (10 M)

(OR)

5 What is AR? Explain the working AR in detail with example. (10 M)

UNIT-III

6 Describe the process of Handling of Locomotion in AR/VR. (10 M)

(OR)

7 Explain the process of simplifying the Controller Unit in VR. (10 M)

UNIT-IV

8 Differentiate 2D Data Visualization and 3D Data Visualization. (10 M)

(OR)

9 Briefly explain the Data Visualization challenges in XR (10 M)

UNIT-V

10 Describe in detail about the companies that are using VR and AR in HealthCare. (10 M)

(OR)

11 Differentiate Reactive AI and Delibarative AI. (10 M)

RAYALASEEMA UNIVERSITY COLLEGE OF ENGINEERING, KURNOOL
B.Tech (RU20) VII Semester End Examinations, NOV 2023
MANAGEMENT SCIENCE (20AHS5206)   రిRUSAOSOS
(CSE & MEC)

Time: 3 Hours   Max. Marks: 70

PART-A   (10 X 2 = 20 M)
(Compulsory Question)

Answer the following.

		Unit	Marks
1	a) Briefly explain Taylor's scientific theory.	I	(2 M)
	b) Why social responsibility is important in management?	I	(2 M)
	c) Explain marketing strategies based on product life cycle.	II	(2 M)
	d) Bring out the famous Deming's principles of quality.	II	(2 M)
	e) What are methods available to collect information relating to job analysis?	III	(2 M)
	f) Write about On-the-job and Off-the-job training methods.	III	(2 M)
	g) Write a short note on environmental scanning.	IV	(2 M)
	h) What is project crashing?	IV	(2 M)
	i) What is management information system?	V	(2 M)
	j) What is the role of Customer relationship management?	V	(2 M)

PART-B   (5 X 10 = 50 M)

(Answer One FULL Question from each Unit; All questions carry EQUAL marks)

UNIT-I

2 Define Management. Briefly explain Henry Fayol's principles of Management.   (10 M)

(OR)

3 What are the causes of conflicts between line and staff? Discuss the measures to overcome (10 M) them.

UNIT-II

4 What is meant by layout? What are the different types of Layouts?   (10 M)

(OR)

5 Enumerate the steps involved in basic Work Study procedure. List techniques used in (10 M) conducting method study.

UNIT-III

6 Define Human Resource Management. Explain managerial and operative functions of Human (10 M) Resource Management.

(OR)

7 What are objectives of Performance appraisal? Explain the methods of Performance (10 M) Appraisal.

UNIT-IV

8 Explain steps in Strategy formulation and Implementation.   (10 M)

(OR)

9 From the following data: (i) Draw the network (ii) Identify critical path. (iii) Find out the (10 M) duration of the project.

Activity	1-2	2-3	2.4	3-5	4-5	5-6
Duration (In days)	2	6	2	5	3	2

UNIT-V

10 Explain the principles of Total Quality Management. How does Six Sigma differ from TQM? (10 M)

(OR)

11 What are the various steps in any successful benchmarking process? Explain giving relevant (10 M) examples.

B.Tech VII Semester End Examinations, Nov 2023
FULL STACK DEVELOPMENT (20APE0514)
(Computer Science and Engineering)

Time: 3 Hours   Max. Marks: 70

PART-A   (10 X 2 = 20 M)
(Compulsory Question)

Answer the following.

		Unit	Marks
1 a)	Differentiate between an HTML element and an HTML attribute.	I	(2 M)
b)	How can you add style to HTML Document.	I	(2 M)
c)	List out different data types in JavaScript.	II	(2 M)
d)	What is JSON.	II	(2 M)
e)	What are single page React forms.	III	(2 M)
f)	What are the different benefits of using Redux?	III	(2 M)
g)	Define RESTful API.	IV	(2 M)
h)	What is Spring in Java Web Development.	IV	(2 M)
i)	Define SQL.	V	(2 M)
j)	What is use of BSON.	V	(2 M)

PART-B   (5 X 10 = 50 M)

(Answer One FULL Question from each Unit; All questions carry EQUAL marks)

UNIT-I

2 Explain differences between GitHub and Git. (Explain differences)   (10 M)

(OR)

3 Explain the working of Internal, External and Inline CSS in detail. of Internal,   (10 M)

UNIT-II

4 What is a Java Script. Explain the advantages of adding a script to HTML document. (10 M)

(OR)

5 Discuss different types of jQuery events and explain how to use them to make
interactive web pages?   (10 M)

UNIT-III

6 Discuss some of the basic concepts of Redux.   (10 M)

(OR)

7 Explain the working of client-server communication.   (10 M)

UNIT-IV

8 Explain different phases of Maven - Build lifecycle.   (10 M)

(OR)

9 Explain the working of Model View Controller.   (10 M)

UNIT-V

10 What is MongoDB? Explain the working model of MongoDB in detail.   (10 M)

(OR)

11 Describe some of the basic SQL commands, such as SELECT, INSERT, UPDATE, (10 M)
and DELETE with examples.

B.Tech VII Semester End Examinations, November 2023
CLOUD COMPUTING (20APE0509).
(Computer Science and Engineering)

Time: 3 Hours   Max. Marks: 70

PART-A		(10 X 2 = 20 M)

(Compulsory Question)

Answer the following.   Unit   Marks

1 a) Write about Scalability and Elasticity.   I   (2 M)

   b) What is Network Function Virtualization.   I   (2 M)

   c) Write About Content Delivery Services.   I   (2 M)

   d) What is Hadoop cluster Setup.   II   (2 M)

   e) Write about Image Processing.   III   (2 M)

   f) What is Python package for Interest.   III   (2 M)

   g) Write about Live video Streaming App.   IV   (2 M)

   h) Write about Benchmark tools.   IV   (2 M)

   i) What is cloud computing for Health Care.   IV   (2 M)

   j) What is Identity Access Management.   V   (2 M)

PART-B   **(5 X 10 = 50 M)**

(Answer One FULL Question from each Unit; All questions carry EQUAL marks)

UNIT-I

2   Define cloud computing. Explain about Virtualization and Replication in   (10 M)
     Detail.

(OR)

3   Briefly explain about Cloud Services.   (10 M)

UNIT-II

4   Explain about Reference architecture for cloud application.   (10 M)

(OR)

5   Explain about Cloud Application Design Methodologies.   (10 M)

UNIT-III

6   Write about Design Approaches for cloud application Devolepment in   (10 M)
     python.

(OR)

7   Explain about Cloud application Benchmark Perofrmence Matrics.   (10 M)

UNIT-IV

8   Explain the classiffications of Bigdata Systems.   (10 M)

(OR)

9   Explain about Benchmarking Tools and Deployment Prototyping.   (10 M)

UNIT-V

10   Explain about CSA Security Architecture.   (10 M)

(OR)

11   Explain about Cloud computing for transportation system.   (10 M)