

Name:
Reg. No.:

23/10/19
9.30am-12.30pm
1/3 out 12.30pm

Rajagiri College of Social Sciences (Autonomous)
First Semester MCA Degree Examination

October – 2019

(Regular – 2019 admission)

Code: 2739

Sub: MCA104 - Database Management System

Max. Marks: 75

Duration: 3Hrs

SECTION A

*Answer any **TEN** questions.
(Each question carries 3 marks)*

10 X 3 = 30

- 1 What are stored and derived attributes?
- 2 What does DBMS do when constraints are violated?
- 3 What is a multivalued dependency?
- 4 Write a command to create a SEQUENCE and insert it into a table for an autonumber.
- 5 What are the ACID properties?
- 6 Define lock.
- 7 What is a privilege? How can you grant or revoke privileges?
- 8 What are the anomalies that are eliminated in 4NF?
- 9 What do you mean by referential integrity constraint? Give examples.
- 10 When do we use aggregation in an ER Diagram?
- 11 Discuss on the anomalies due to interleaved execution.
- 12 What are attributes? Give examples.

SECTION B

*Answer **ALL** questions.
(Each question carries 9 marks)*

5 X 9 = 45

- 13 a) Explain in detail about the strict two-phase locking protocol.

[OR]

- b) Deliberate on cascadeless schedule with suitable example.

- 14 a) What are nested queries? How would you use the operators IN, EXISTS and UNIQUE in nested queries.

[OR]

- b) Write a PL/SQL code to update the salaries of the employees using cursor.

- 15 a) Compare BCNF and 3NF with respect to functional dependencies that can exist in the normal forms and decomposition into the corresponding normal forms.

[OR]

- b) Illustrate with examples redundancy and the problems/ anomalies it can cause. Can null values help in addressing these problems?

P.T.O

16 a) Consider the following schema:-

Student(sid, sname, age) Enroll(Sid, Cid, date) Course(Cid, Cname, Cduration, Cfees)

Write the following queries in Relational Algebra.

- i) List the name of students joined for the course 'Python'.
- ii) List the course for which 'Bob' has joined.
- iii) List the course with fees greater than Rs. 50000
- iv) List the course for which 'Bob' has enrolled and 'Alice' not enrolled.

[OR]

b) Consider the following schema:-

Sailors(sid, sname, rating, age) Boats(bid, bname, color) Reserves(sid, bid, day)

Write the following queries in Relational Algebra.

- i) Find the names of sailors who have reserved boat named WAVES.
- ii) Find the sid of sailors with age over 30 and who have not reserved a yellow boat.
- iii) Find the names of sailors who have reserved a red and white boat.

17 a) Describe in detail the difference between a DBMS and an RDBMS.

[OR]

b) Depict the process of online shopping which would include products, shopping cart and bill, using an ER diagram.

Name:
Reg. No.:

25/10/18

9.30am - 12.30pm

Rajagiri College of Social Sciences (Autonomous)

First Semester MCA Degree Examination

October – 2019

(Regular – 2019 admission)

Code: 2740

Sub: MCA105 - Essentials of Management and Organizational Behaviour

Max. Marks: 75

Duration: 3Hrs

SECTION A

*Answer any **TEN** questions.
(Each question carries 3 marks)*

10 X 3 = 30

- 1 What are the different objectives of management?
- 2 List out the various types of committees in an organization.
- 3 State any five traits of great leaders.
- 4 "Marketing Research is the cornerstone of Scientific Marketing". Comment.
- 5 List the Contributing Disciplines of Organisational Behaviour.
- 6 What are the causes of team failure? Suggest ways to make a team successful.
- 7 Explain the Product Life Cycle.
- 8 "Physiological needs in Maslow's need hierarchy theory is more important than other needs". Comment.
- 9 Explain the term Communication. What is the purpose of communication?
- 10 Distinguish between a leader and a manager.
- 11 Explain the sixteen primary traits of personality.
- 12 What is the difference between data, information and knowledge? Why is information important for an organization?

SECTION B

*Answer **ALL** questions.
(Each question carries 9 marks)*

5 X 9 = 45

- 13 a) Critically examine Max Webers concept of Bureaucracy in detail.

[OR]

- b) Give a comparative study of the work of Henry Fayol and F.W Taylor in the field of management.

- 14 a) Compare Line, Line -staff and functional organisation in detail.

[OR]

- b) Discuss the term training and development? Explain the types of training and types of development in detail.

P.T.O

15 a) Define Motivation. Explain Maslow's Need Hierarchy theory.

[OR]

b) Explain the importance of control in a business enterprise. Discuss briefly the process of control in any industry.

16 a) Is advertising a necessary economic function in modern business? What considerations would you keep in mind while choosing advertising media?

[OR]

b) Define advertising. Explain the need and significance of advertising and the functions of advertising.

17 a) Explain in detail the important personality attributes that influence organisational behaviour.

[OR]

b) Explain in detail the process of team building.
