16022 0 6

Code No.: 16142 AS (B)

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. VI-Semester Advanced Supplementary Examinations, July-2023 Introduction to Databases (OE-IV)

Time: 3 hours

Max. Marks: 60

Note: Answer all questions from Part-A and any FIVE from Part-B

 $Part-\Lambda$ (10× 2 = 20 Marks)

Q. No.	Stem of the question	M	L	CO	PC
1.	Define a Database?	2	1	1	1,2
2.	Explain significance of ER diagram?	2	1	1	1,2
<i>3</i> .	List out different types of SQL commands?	2	2	2	1,2
A.	Give examples for 2 aggregate functions in SQL?	2	2	2	1,2
8.	Define first normal form?	2	1	3	1,2
Ø.	Specify the features of good database design?	2	2	3	1,2
7.	Define indexing and specify its benefits?	2	2	4	1,2
8/	What is static hashing, explain?	2	3	4	1,2
8.	What is atomicity, define?	2	1	5	1,2
D.	Write the importance of recoverability?	2	3	5	1,2
	$Part-B (5 \times 8 = 40 Marks)$				-,-
(. 20)	Discuss in detail about database users and administrators?	4	1	1	1,2
by	Explain the database design process with an example?	4	3	1	1,2
1	Discuss about join expressions with examples?	4	3	2	1,2
7	What is database view? Explain it with example?	4	3	2	1,2
. a)	Discuss briefly about how a database is decomposed based on functional dependency?	4	3	3	1,2,3
by	Explain with an example how to design a good relational database?	4	3	3	1,2,3
-	Explain in detail about B+ Tree indexed files with an example?	4	2	4	1,2
6)	Differentiate between static and dynamic hashing? Give an example for hashing type.	4	3	4	1,2

Code No.: 16142 AS (B)

:: 2 ::

				-	
15. x	Explain about recoverable schedules with examples.	4	2	5	1,2
b)	Explain in detail about transaction serializability with an example?	4	3	5	1,2,3
16. a)	Discuss in detail about database constraints?	4	1	1	1,2
b)	What is nested query? Explain about nested sub-queries?	4	3	2	1,2
xh.	Answer any two of the following:				-
a)	Discuss about Armstrong's axioms with example and why are they sound and complete.	4	2	3	1,2
by	Write about the advantages of ordered indexing?	4	3	4	1,2
d	What is transaction? Explain it with examples?	4	2	5	1,2

M: Marks; L: Bloom's Taxonomy Level; CO; Course Outcome; PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	30%
iii)	Blooms Taxonomy Level – 3 & 4	50%
