2019/EVEN/BVOC-GE-403/329

TDC Even Semester Exam., 2019

BVOC (INFORMATION TECHNOLOGY)

[4th Semester)

Course No.: BVOC-GE-403

(Software Engineering)

Full Marks: 70
Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

UNIT-I

- 1. (a) Define software engineering. Briefly explain three phases of software engineering.
 - (b) Explain spiral model. What are its advantages and disadvantages.

(Turn Over)

8

6

J9/2085

J9/2	085	(Continue	ed)	J9 /2085	ig (Turn	Over)
	(b)	Explain TOP-DOWN and BOTTOM-UP strategies with respect to software design.	8		test case specification.	2
		associated with design of the software?	6	•	ntrol flow-based testing ta flow-based testing	
4.	(a)	What do you mean by function-oriented design? What are the principles			e the concepts of the following testing:	ng 12
	(b)	Briefly explain structure chart with example.	6		explain the term black-boand white-box testing.	ож 6
		(iii) Cohesion (iv) Coupling			different levels of testing the	at 8
		(ii) Modularity			Unit—IV	
.	(4)	(i) Abstraction	•		nsistency checkers	
3.	(a)	UNIT—II Define the following terms:	8		sign walkthrough itical design review	
	(c)	Write a short note on prototyping model.	3	(b) Discuss		n 12
	(a)		3	6. (a) Define	PDL.	2
	(b)	Briefly explain the structure of requirement documents.	5	(b) Briefly Langua	explain Unified Modellinge (UML).	ng 4
	• /	requirement specification (SRS)? What are its importances during software development?	6	5. (a) Explair design.	the concept of object-oriente	ed 10
2.	. (a)	What do you mean by software	Unit—III			

(4)

UNIT--V

9.	(a)	What do you mean by quality assurance? What are the activities of SQA?	8
	(b)	Briefly explain software reliability.	ϵ
10.	(a)	Define the following: (i) Version control (ii) Change control (iii) The SQA plan	12
	(b)	What is the ISO 9001 standard.	2

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2019/EVEN/BVOC-GE-401/327

TDC Even Semester Exam., 2019

BVOC (INFORMATION TECHNOLOGY)

(4th Semester)

Course No.: BVOC-GE-401

(Indian Culture and Heritage)

Full Marks: 70
Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

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1. What is meaning of Heritage? Discuss the significance of cultural Heritage of India.

4+10=14

2. Define the term 'cultural identity'. How does the cultural Heritage make the Indian

Nation? 4+10=14

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	TOS Exercises Secretarias COS	
3.	Discuss the salient features of Ancient	
4 /	Indian Culture. 79:3777 378	14
4.	Write a note on Modern Indian Culture.	14
	Course No : BAOC-CE-191	
5.	Do you think 'Architecture as symbol of power? Explain.	14
6.	Discuss the significant features of temples, tombs and monuments of Indian culture.	14
	UNIT—IV	. ,
7.	Discuss the multiple forms of Indian culture.	14
8.	Write a note on various performing arts in India.	14
	UNIT—V	
٠.	A granual single and to grant and the A. A.	
	Discuss the various representations of Native	
; = ()	in Indian culture.	14
	What contribution did Mahatma Gandhi in Environment of Modern World?	14
. = 11		

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TDC Even Semester Exam., 2019

BVOC (INFORMATION TECHNOLOGY)

(4th Semester)

Course No.: BVOC-GE-402

(Database Management System)

Full Marks: 70
Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

Unit-I

- 1. (a) Discuss the main characteristics of the database approach. How it differs from traditional file system?
 - (b) Write about different data models.

J9/2084 (Turn Over)

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(b) Write short notes on the following: 4+3=7

(i) Armstrong's axioms

(ii) Canonical cover

foreign key. What is the difference from strong entity between primary key and foreign key?	tity set? How it differs y set? Give an example. h by relationship set?
Explansive an example. Make the second of th	chema diagram for a
(b) Define referential integrity. 2 (c) Discuss the three-tier architecture of DBMS. How its differs from two-tier.	et of patients and a set ate with each patient a ests and examinations
calculus. 7 dependency? Cor the following s (b) Give an example of relational algebra dependencies for	mean by functional mpute the closure of set F of functional or relational schema
queries using aggregate function. 4 $R = (A, B, C, D, E)$ (c) When two relations are said to be union compatible? Explain with an example. 3 $CD \rightarrow E$ $B \rightarrow D$	
UNIT—III $E \to A$ List the candidate 5. (a) Design an E-R diagram for a database (b) Write short retermine to the condition of the condition	

J9/2084

(Continued)

7

multiple

company having

departments.

J9/2084

(Turn Over)

4

3

(4)

8. Explain the various normal forms with an example. What is the necessity of normalization in the design of database? What is the difference between BCNF and 3NF? 9+2+3=14

		UnitV	
9.	(a)	Create a table in SQL using primary key and foreign key.	4
	(b)	Give examples of "Like" and "Between" operations.	3
	(c)	Write SQL commands to create a table "Employee" with attributes "name", "city", "salary", "emp_no", "address". Write SQL commands to insert a row and add an attribute "department into the table".	7
LO.	(a)	Illustrate "Group by", "order by" and "Having" clauses with examples.	5
	(b)	Explain the join operation with an example.	3
	(c)	How to create a view? Give an example.	3
	(d)	Write about different built in data type of SQL.	3
