(6 pages)

## A2-2362/SCSJA51

Time: Three hours

APRIL 2022

Maximum: 75 marks

## CLIENT/SERVER COMPUTING

erv		
	e client passes requests for file records over work to the file server, as was the case for	
(a)	database server	
(b)	object server	
(c)	file server	
(d)	transaction server	
TP Monitor example of a client/serve architecture.		
(a)	1-tier	
(b)	2-tier	
(c)	3-tier	
1-1		

	that the end user usually interacts with the client process.				
	(a)	Back-end application			
	(b)	Front-end application			
	(c)	Communication middleware			
	(d)	Groupware			
١.	DDI	E is implemented in product.			
	(a)	DOS (b) Microsoft Windows			
	(c)	UNIX (d) Network			
5.	The server's "filing cabinet" is a				
	(a)	Record			
	(b)	Database			
	(c)	File			
	(d)	Data Storage			
3.	Which is the SQL database server architecture that conserves memory and CPU?				
	(a)	Hybrid Architecture			
	(b)	Multithreaded Architecture			
	(c)	Process-per Architecture			
	(d)	Dynamic Architecture			

The client is also known as the \_\_\_\_\_, reflecting

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7.	provides current, up-to-the-minute information reflecting changes and continuous updates.	PART B — $(5 \times 7 = 35 \text{ marks})$ Answer ALL questions, choosing either (a) or (b).		
	(a) DSS (b) OLTP (c) OLE (d) CORBA	11. (a) Differentiate between Stateful and Stateless servers.		
8.	is ideal for organizations that have shared repositories of documents, images, large data objects, read-only files, etc.  (a) Database centered system  (b) File sharing	(b) How client/server computing environment is different from mainframe based computing environment?  12. (a) Differentiate between Downsizing and		
	(c) Groupware	12. (a) Differentiate between Downsizing and Client/Server Computing.		
	(d) Distributed objects	Or		
9.	The System is an open, cross-platform, Client/Server system for managing a windowed graphical user interface in a distributed network.	(b) Explain Peer to Peer architecture. What is the basic difference between Client/Server and Peer to Peer Computing?		
	<ul><li>(a) X-Windows</li><li>(b) X-server</li><li>(c) X-Terminal</li></ul>	13. (a) Explain about the process-per-client architecture.		
	(d) Unix workstations			
10.	is RAID Mirroring and Duplexing.	(b) Compare Web database and traditional database.		
	(a) Level 2 (b) Level 1	uatabase.		
	(c) Level 3 (d) Level 0			
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14. (a) What are the various classes of client/server applications? Explain.

Or

- (b) Write a short note on CORBA.
- 15. (a) Explain the functions and features of Network Operating System.

Or

(b) What is the role of Java for client/server on web?

PART C - (3 × 10 = 30 marks)

Answer any THREE questions.

- 16. Describe three-level schema architecture. Why do we need mapping between schema levels?
- Explain Client/Server System development methodology and explain various phases and their activities involved in System Integration Life Cycle (SILC).
- 18. What are the components of database middleware? Explain.
- 19. Explain the role of client in Client/Server computing and also explain the various services provide by client.

- 20. Explain the working principal of following:
  - (a) CDROM
  - (b) WORM
  - (c) Mirror disk
  - (d) Tape optical disk
  - (e) UNIX Workstation.

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