


Course No: ESGD4221
Course Title: Distributed System.
Date: 29/ 03 / 2011
No. of Questions: _____
Time: 1 H.
Using Calculator (Yes)

University of Palestine

Midterm Exam
2nd Term 2010/2011
Total Grade: 20

Instructor Name: Eng. M. Timraz
Student No.: _____
Student Name: _____
College Name: Engineering
Dep. / Specialist: Software
Using Dictionary (No)

First Question **No. of Branches (2)** **(10/20)**

Q1 B1: **(5/10)**

Put True or False in the specific table below.

- (1) The client/server model is organized around clients that request services and servers that provide services.
- (2) The scalability is a major feature in distributed system to make is secure system.
- (3) Fundamental models describe properties common to all architectural models often focusing on communications between nodes.
- (4) Proxy is a layer between client and server that may provide data and/or application processing.
- (5) Middleware is the software between your application and the operating system and networking on a computer.
- (6) In DS Clients see only one system.
- (7) Network provides transparency of the transport interface code.
- (8) Proxy servers can be located at each client, or can be shared by several clients.
- (9) Asynchronous is ensuring that when something goes wrong, the system can recover or bypass the fault rapidly without loss of information.
- (10) An application does not need to know what port to use to contact the Portmapper.


<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>

Q1 B2 **(5/10)**

Choose the correct answer (a, b, c or d) and then put it in the specific table in the model answer note.

- (1)is a wide interconnected collection of computer networks of many different types.
 - a. The distributed System.
 - b. The Internet.
 - c. The middle ware.
 - d. Architectural models.
- (2) Distributed systems can be used in many different ways by persons or systems with different.....
 - a. Attributes.
 - b. Objectives.
 - c. a and b.
 - d. non of the above.


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- (3) Server only responsible for data management. This feature is done by.....
- Middle ware.
 - Fat client.
 - Thin client.
 - b and c.
- (4) is software that makes hardware useable.
- Operating System
 - Middle ware.
 - The application.
 - All of the above.
- (5) Typically used as cache for web resources.
- Internet.
 - Proxy server.
 - a and b.
 - non of the above.
- (6)is protection from compromise or loss of information or investment.
- Reliability.
 - Security.
 - Load balancing.
 - non of the above.
- (7)High potential throughput can be defeated if the work is not distributed to make maximum use of potential because some of the system is idle.
- Reliability.
 - Time Criticality.
 - Load balancing.
 - all of the above.
- (8) Time taken by communication service and OS for processing.
- Bandwidth.
 - Latency.
 - Flow time.
 - b and c.
- (9) Each message transmission over a channel has a bounded time. This feature occurs in...
- Asynchronous Systems.
 - Synchronous Systems.
 - a and b.
 - non of the above.
- (10)is a widely used communications process for building distributed applications.

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- a. Middleware.
- b. RPC.
- c. RMI.
- d. all of the above.

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Second Question **No. of Branches (3)** **(10/20)**

Q2 B1 **(3/10)**

Client-Server configurations are generally categorized in two types, List them and explain with drawing.

Q2 B3 **(3/10)**

List the main advantages (Pros) and disadvantages (Cons) for the middle ware.

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Q3 B2

(4/10)

How RPC Systems Work? List the steps for RPC working and supporting them with graph procedure.

End of Questions