بِسِيْ مِاللَّهِ ٱلرَّحْمَزِ ٱلرَّحِي مِ

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 2<sup>nd</sup> Term 2010/2011 Total Grade: 20 **First Question** 

No. of Branches (2)

(10/20)

## <u>Q1 B1:</u>

<u>(5/10)</u>

## Put True or False in the specific table below.

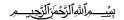
- (1) The client/server model is organized around clients that request services and servers that provide services.
- (2) The scalability is a major feature in distributed system to make is secure system.
- (3) Fundamental models describe properties common to all architectural models often focusing on 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>	2	3	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>

O1 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.



**University of Palestine** Course No: ESGD4221 **Instructor Name: Eng. M. Timraz Course Title: Distributed System. Student No.:** Date: 29/03/2011 **Student Name: College Name: Engineering No. of Questions: Midterm Exam** Time: 1 H. Dep. / Specialist: Software 2<sup>nd</sup> Term 2010/2011 **Using Calculator (Yes) Using Dictionary (No) Total Grade: 20** (3) Server only responsible for data management. This feature is done by...... a. Middle ware. b. Fat client. c. Thin client. d. b and c. (4) ..... is software that makes hardware useable. a. Operating System b. Middle ware. c. The application. d. All of the above. a. Internet. b. Proxy server. c. a and b. d. non of the above. (6) .....is protection from compromise or loss of information or investment. a. Reliability. b. Security. c. Load balancing. d. 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. a. Reliability. b. Time Criticality. c. Load balancing. d. all of the above. (8) Time taken by communication service and OS for processing. a. Bandwidth. b. Latency. c. Flow time. d. b and c. (9) Each message transmission over a channel has a bounded time. This feature occurs in... a. Asynchronous Systems. b. Synchronous Systems. c. a and b. d. non of the above.

(10) ......is a widely used communications process for building distributed applications.

بِسِيْــــمِٱللَّهِٱلرَّحْمَزِٱلرَّحِيــمِ

Course No: ESGD4221

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Date: 29/ 03 / 2011 No. of Questions: \_\_\_\_\_

Time: 1 H.

**Using Calculator (Yes)** 

**University of Palestine** 

Midterm Exam 2<sup>nd</sup> Term 2010/2011 Total Grade: 20 **Instructor Name: Eng. M. Timraz** 

Student No.: \_\_\_\_\_

Student Name: \_\_\_\_\_ College Name: Engineering

Dep. / Specialist: Software Using Dictionary (No)

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

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

**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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Course No: ESGD4221

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Date: 29/ 03 / 2011 No. of Questions: \_\_\_\_\_

Time: 1 H.

**Using Calculator (Yes)** 

**University of Palestine** 



Midterm Exam 2<sup>nd</sup> Term 2010/2011 Total Grade: 20 Instructor Name: Eng. M. Timraz Student No.:

Student Name: \_\_\_\_\_\_
College Name: Engineering

Dep. / Specialist: Software Using Dictionary (No)

Q3 B2 (4/10)

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

## **End of Questions**