Distributed Systems? Explain independent check pointing and

coordinated check pointing.

Explain following points related to recovery for providing fault tolerance capacities:

 $\Theta$ 

 $\Xi$ 

B Sender based logging

₹ Receive based logging.

Forward recovery

ى www.FirstRa

Backward recovery

2605/187/142/3550

Attempt any two questions out of the following:

a k

a c

in

B

C

1/

a

3. F

Discuss how the efficiency of distributed shared tem depends on the size of granularity and propage replacement. Discuss how the efficiency of distributed shared memory systern depends on the size of granularity and protocol used for

How check pointing is used in fault tolerance in

 $(15 \times 2 = 30)$ 

Paper ID : 110780

(Following Paper ID and Roll No. to be filled in your **Answer Books)** Roll No.

**Printed Pages: 4** 

ECS-701

B.TECH.

Theory Examination (Semester-VIII) 2015-16

DISTRIBUTED SYSTEM

Time: 3 Hours

Max. Marks: 100

Section-A

: Attempt all parts. All parts carry equal marks. Write answer of each part in short.  $(2\times10=20)$ 

Define distributed systems with its examples.

ਭ What is meant by distributed file system?

(c) Discuss heterogeneity and its characteristics.

<u>a</u> Which type of network can be used by distributed system?

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- 2605/187/142/3550
- www.FirstRanker.com №
- - 3 What is meant by distributed garbage collection?

(e) Explain global states and distributed debugging.

- 9 Why are distributed computing systems gaining popu-
- E What are the different types of distributed file system available?
- $\Theta$ Write the difficulties occur to make distributed system.
- 9 Differentiate between marshalling and un-marshalling.
- Section-B
- Attempt any five questions from this section.
- $(10\times5=50)$
- **a** Write in detail about the characteristics of inter process communication.
- Explain how mutual exclusion is implemented in distributed systems.

(2)

- <u>ල</u> Explain the two phases in the two-phase commit protocol with the help of a diagram.
- <u>a</u> Can a server invoked by light weight procedure calls control the degree of concurrency within it? Explain.
- <u>@</u> Ξ Bully algorithm. What are the election algorithms? Explain about
- $\Xi$ Explain about distributed debugging.
- $\mathfrak{S}$ What are the key design issues of remote procedure call system?
- **®** Explain asynchronous replication for updating distributed data.

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- $\Xi$ Write short notes on:
- Ξ shared memory. Design and implementation issues of distributed
- $\Xi$ Distributed deadlocks.

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P.T.O.

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