

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code : 60721

M.C.A. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2012.

Fifth Semester

MC 9251/MC 951/600519 — MIDDLEWARE TECHNOLOGIES

(Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. With a neat diagram show the relationship behind service, requester and provider?
2. List out the different types of middleware.
3. What are the characteristics of a component?
4. Differentiate static and dynamic invocations.
5. What are the CORBA services available under Event?
6. State the purpose of CORBA security service.
7. What are the XML standards available for Webservices?
8. How do you secure messaging protocol?
9. Mention the specialty of agent based middleware.
10. Define RFID Middleware.

PART B — (5 × 16 = 80 marks)

11. (a) Explain how middleware is used for building distributed applications. (16)

Or

- (b) (i) What is Transactional component middleware? What are the techniques involved in that? Discuss about any two. (12)
- (ii) Compare MOM with RPC. (4)

[rejinpaul.com](http://www.rejinpaul.com)

Grow With Us

12. (a) (i) Give a layout on typical service architecture and Web service architecture. (8)
(ii) Compare messaging queuing Vs. distributed transaction processing. (8)

Or

- (b) Describe how to make dynamic invocation in RMI and COM+. (16)
13. (a) (i) State the purpose of naming service and list down their interfaces. (8)
(ii) Specify the functionalities provided by Life cycle service, by which interfaces. (8)

Or

- (b) What are the specifications provided by security interfaces and security module interfaces? Explain. (16)
14. (a) (i) Explain the Extended web services. (6)
(ii) Create a Web service for online Payment using credit/debit cards. (10)

Or

- (b) Explain how to do the following :
(i) Discover webservice (8)
(ii) Secure webservice. (8)
15. (a) Give an example for real time middleware and Explain it's architecture. (16)

Or

- (b) (i) State the purpose of reflective middleware and write down their building steps. (8)
(ii) Explain how multimedia middleware is useful to the community. (8)

