



VALLIAMMAI ENGINEERING COLLEGE
SRM NAGAR, KATTANKULATHUR – 603 203
DEPARTMENT OF COMPUTER APPLICATIONS
QUESTION BANK IN REVISED BLOOM'S TAXONOMY



ACADEMIC YEAR: 2016-17	SEMESTER: ODD
BRANCH: MCA	YEAR: III
SEMESTER: V	
SUBJECT CODE AND NAME: MC7009 HUMAN RESOURCE MANAGEMENT	
NAME OF THE FACULTY MEMBER AND DESIGNATION: Mr. R.PRINCE JEYASEELAN JAMES, ASSISTANT PROFESSOR (S.G.)	

Part – C

UNIT I

Q.No.	Question	BTL
1	“Globalization had led us to the realization that workers are interchangeable between countries so long as language issues are resolved.” Do you agree with this statement? Interpret your position. (15)	6
2	You have been offered two positions in HRM. One is a generalist position in a smaller business, and one is a recruiting position in a large corporation. Which of the two jobs do you believe will give you more involvement in a variety of HRM activities? How do you defend your answer? (15)	5

UNIT II

Q.No.	Question	BTL
1	“More emphasis should be placed on the external supply of employees for meeting future needs because these employees bring new blood into the organization. This results in more innovative and creative ideas.” Do you agree with this statement? Evaluate your response. (15)	6
2	“Untrained interviewers can make mistakes that are very costly to the organization.” Discuss errors in perception and selection that interviewers can make and how to avoid them. (15)	5

UNIT III

Q.No.	Question	BTL
1	Training programs are frequently the first items eliminated when management wants to cut costs. Why do you believe this occurs? Interpret the statement. (15)	6
2	Compile your orientation experience in a one-or-two-page report, and then share your experience with your class or team. (15)	5

UNIT IV

Q.No.	Question	BTL
1	“Performance appraisal should be multifaceted. Supervisors should evaluate their employees, and employees should be able to evaluate their supervisors. And customers should evaluate them all.” Do you agree with this statement? Discuss (15)	5
2	Team compensation allows some individual to work, harder than others, yet receive the same pay. Do you agree or disagree? Evaluate your position. (15)	6

UNIT V

Q.No.	Question	BTL
1	“Safety and health practices are good business decisions.” Compile your argument supporting this statement. (15)	5
2	Given your career aspirations, might you join a union? Why or why not? Interpret. (15)	6



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ACADEMIC YEAR: 2016-17		SEMESTER: ODD
BRANCH: MCA	YEAR: III	SEMESTER: V
SUBJECT CODE AND NAME: MC7015 – SOFTWARE PROJECT MANAGEMENT		
NAME OF THE FACULTY MEMBER AND DESIGNATION		Dr. A. Abdul Rasheed, Prof. & HOD

PART-C

UNIT-I

Sl. No	Question	BTL
1	Identify the main types of personnel employed in an information systems (IS) development. For each stage of atypical IS development project, list the types of personnel who are likely to be involved. (15)	5
2	A building society has a long history of implementing computer-based information system (IS) to support the work of its branches. It uses a proprietary structured systems analysis and design method. It has been decided to create a computer model of the property market. This would attempt, for example, to calculate the effect of changes of interest rates on house values. There is some concern that the usual methodology used for IS development would not be appropriate for the new project. Outline a plan for the development of the system which illustrates the application of your preferred methodology for this project. (15)	6

UNIT-II

Sl. No	Question	BTL
1	Working in a group of three or four, imagine that you are about to begin a programming assignment as part of the assessed work for your course. Draw up a list of the risks that might affect the assignment outcome. Individually classify the importance and likelihood of each of those risks as high, medium or low. (15)	5
2	An invoicing system is to have the following components: amend invoice, produce invoice, produce monthly statements, record cash payment, clear paid invoices from database, create customer records, delete customer. How could the system be broken down into increments which would be of some value to the users. (Assume that the system is already implemented) (15)	6

UNIT-III

Sl. No	Question	BTL																																							
1	Create a precedence activity network using the following details: <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Activity</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> <th>H</th> <th>I</th> <th>J</th> <th>K</th> <th>L</th> </tr> </thead> <tbody> <tr> <td>Depends on</td> <td>-</td> <td>A</td> <td>B</td> <td>A</td> <td>D</td> <td>B</td> <td>B</td> <td>G</td> <td>C</td> <td>G</td> <td>E,F</td> <td>I,H</td> </tr> <tr> <td>Duration (Days)</td> <td>5</td> <td>7</td> <td>6</td> <td>5</td> <td>10</td> <td>15</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>5</td> <td>3</td> </tr> </tbody> </table> Identify the critical path. (15)	Activity	A	B	C	D	E	F	G	H	I	J	K	L	Depends on	-	A	B	A	D	B	B	G	C	G	E,F	I,H	Duration (Days)	5	7	6	5	10	15	8	8	4	4	5	3	6
Activity	A	B	C	D	E	F	G	H	I	J	K	L																													
Depends on	-	A	B	A	D	B	B	G	C	G	E,F	I,H																													
Duration (Days)	5	7	6	5	10	15	8	8	4	4	5	3																													
2	Analyze the following effort estimation methods: (i) Function Points Mark II and (ii) COCOMO. Justify which of these methods is most appropriate for a student information system. (15)	5																																							

UNIT-IV

Sl. No	Question	BTL
1	Schedule slippage is a very common form of risk that almost every project manager has to deal with. Suppose you are the project manager of a medium-sized project. Explain how you would manage the risk of schedule slippage. (15)	5
2	Consider a software development project with seven tasks T1-T7. The estimated duration of these seven tasks in weeks are: 3, 2, 3, 5, 2, 4 and 5 respectively. T2 and T4 can start	6



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	when T1 is complete. T3 can start when T2 is complete. T2, T6 and T7 can start when both T3 and T4 are complete. If developer A is available from the start of the project and developer B and C become available after three weeks of the start of the project. Schedule the project and show your results in the form of a bar chart and resource histogram. (15)	
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UNIT-V

Sl. No	Question	BTL
1	What do you understand by Key Process Area (KPA), in the context of SEI CMM? Would there be any problem if an organization tries to implement higher level SEI CMM KPAs before achieving lower level KPAs? Justify your answer using a suitable example. (15)	6
2	In a software development organization, identify the persons responsible for carrying out the quality assurance activities. Explain the principle tasks they perform to meet this responsibility. (15)	5

ACADEMIC YEAR: 2016-17	SEMESTER: ODD
BRANCH: MCA	YEAR: III
SEMESTER: V	
SUBJECT CODE AND NAME: MC7501 WEB APPLICATION DEVELOPMENT	
NAME OF THE FACULTY MEMBER AND DESIGNATION: Mr. R.PRINCE JEYASEELAN JAMES, ASSISTANT PROFESSOR (S.G.)	

Part – C

UNIT I – J2EE PLATFORM

Q.No.	Question	BTL
1	Develop a car showroom inventory web application with 2-tier architecture. Use appropriate JSP code and JDBC connectivity. (8 + 7)	5
2	Determine the code of a standalone java application to i) add, (5) ii) modify and (5) iii) delete (5) the LDAP attributes of the given input.	6

UNIT II – STRUTS AND HIBERNATE

Q.No.	Question	BTL
1	Determine a student identity management web application using struts framework. The application should be able to provide an identity such as student id, access to department assets with department id, access to lab assets with lab id. (5 + 5 + 5)	6
2	Create and deploy a web application that displays data from a database. The web application should use the Hibernate framework as the persistence layer for retrieving and storing plain old Java objects (POJOs) to a relational database. (15)	5

UNIT III – LAMP STACK

Q.No.	Question	BTL
1	(i) Deploy a simple two-tier LAMP stack application. (7) (ii)Configure the application and database tiers separately and connect them with a binding. (8)	5
2	(i) Determine the steps to create a dynamic web application using python. (5) (ii)Verify with code for designing temperature converter web application using python.(10)	6



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UNIT IV – .NET, C#

Q.No.	Question	BTL
1	(i) Create a simple database web application using C#.NET. (7) (ii) Display the records of a specific table in the database with a DataSet, DataGrid and DataView. (8)	5
2	(i) Determine the code to read a string and find the sum of all digits in the string using C#.NET. (8) (ii) Determine the code to count number of vowels and consonants from a given string using C#.NET. (7)	6

UNIT V – ASP.NET AND SILVERLIGHT

Q.No.	Question	BTL
1	(i) Create a ASP.NET component that receives two numbers from the user through a Web Form, and based on the user's selection add or subtract the two numbers and returns the result to the web form. (10) (ii) Design a web form to display the result. (5)	5
2	(i) How would you create a graph using the SharePoint Object Model? (8) (ii) Determine the steps to display the graph using Silverlight Graphing controls. (7)	6

ACADEMIC YEAR: 2016-17		SEMESTER: ODD	
BRANCH: MCA	YEAR: III	SEMESTER: V	
SUBJECT CODE AND NAME: MC7502-SERVICE ORIENTED ARCHITECTURE			
NAME OF THE FACULTY MEMBER AND DESIGNATION: Mr. S.K.Saravanan, ASSISTANT PROFESSOR (Sel.G.)			

Part – C
UNIT-I

S. NO	QUESTIONS	BTL
1.	Explain the logical components of Web services framework (15)	6
2.	(i) Design the Services Layers with neat diagram. (6) (ii) Explain the following services: (a). Entity Services (b) Task Services (c) Utility Services (3 + 3 + 3)	5

UNIT-II

S. NO	QUESTIONS	BTL
1.	(i). Explain the different types of Web services. (8) (ii). Discuss the web services protocols. (7)	6
2.	Design and identify the main goals of XML. Also discuss the benefits of XML. (15)	5

UNIT-III

S. NO	QUESTIONS	BTL
1.	Explain the importance of messaging with SOAP and message exchange patterns in Web services. (15)	6
2.	Design the syntactical implementations of all the elements in WSDL. (15)	5



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UNIT-IV

S. NO	QUESTIONS	BTL
1.	Design the architecture and explain the following: (i). J2EE Service Provider (8) (ii). J2EE Service Requester (7)	5
2.	Explain in detail JAX-RPC programming model. (15)	6

UNIT-V

S. NO	QUESTIONS	BTL
1.	(i). Design neatly the architecture diagram of Amazon Web services. (10) (ii). Compose the functional features of Amazon Webservices. (5)	5
2.	Explain the significance and comparison of types of cloud and virtualization. (15)	6

ACADEMIC YEAR: 2016-17	SEMESTER: ODD	
BRANCH: MCA	YEAR: III	SEMESTER: V
SUBJECT CODE AND NAME: MC7503 MOBILE COMPUTING		
NAME OF THE FACULTY MEMBER AND DESIGNATION: Mr. C. VIJAYA KUMARAN, ASSISTANT PROFESSOR (Sel.G.)		

Part – C

UNIT I

Q.No.	Question	BTL
1	Generalize the main elements of the GSM system architecture and invent their functions. Combine the advantages of specifying not only the radio interface but also all internal interfaces of the GSM system? (15)	5
2	There are four channels, two with a bit rate of 200kbps and two with a bit rate 150 kbps are to be multiplexed using multiple slots TDM with no synchronization bits. Answer the following questions: assume 4 bits from the first 2 sources and 3 bits from the second 2 sources. i. Decide the size of a frame in bits (4) ii. Assess the frame rate (4) iii. Judge the duration of a frame (4) iv. Assess the date rate (3)	6

UNIT II

Q.No.	Question	BTL
1	i. Invent how mobility is restricted using WLANs? (4) ii. Prepare the additional elements that are needed for roaming between networks (3) iii. Generalize how and where can WLANs support roaming? (4) iv. With a focus on security, compose the problems of WLANs (4)	5
2	i. Assess how do IEEE 802.11 and Bluetooth solve the hidden terminal problem? (8) ii. Summarize the level of security provided by WLANs to mitigate these problems? (7)	6

UNIT III

Q.No.	Question	BTL
1	i. Assess the performance inefficiency of mobile IP regarding data forwarding from a correspondent node to a mobile node. (7)	5



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	ii. Recommend an optimization to improve the performance of mobile IP as well any problems brought in by the optimization. (8)	
2	i. Compare different types of transmission loss in TCP that can occur in wired and wireless networks. (5) ii. Explain the reaction of TCP in case of segment loss? (4) iii. Assess in what situation does this reaction make sense and why it is quite often problematic in the case of wireless networks? (6)	6

UNIT IV

Q.No.	Question	BTL
1	i. Compare multi-hop ad-hoc networks and other networks. Summarize the advantages do these ad-hoc networks offer? (8) ii. Assess why routing in multi-hop ad-hoc networks is complicated, summarize the special challenges? (7)	6
2	i. Invent how dynamic source routing handles routing? Compose the motivation behind Dynamic source routing compared to other routing algorithms from fixed networks? (8) ii. Generalize how the symmetry of wireless links influences the routing algorithms proposed? (7)	5

UNIT V

Q.No.	Question	BTL
1	i. Compare the different layouts used in the Android development environment (7) ii. Create a project whose initial screen has a TextView that says "Activity 1" and has a Button that says "Go to Activity 2". Activity 2 show a TextView that says "Activity 2" and have a Button that says "Go to Activity 1". Have the buttons switch back and forth. (8)	5
2	i. Recommend a separate Activity in an Android application that takes two numbers and prints out the sum. Add a button to your initial activity to invoke the SumActivity. (7) ii. Explain an Android application that makes a custom View called RedView. It should have a red background and a desired dimension (e.g., when used with wrap_content) of 200 pixels in both directions. Put it in a layout that has some nested vertical and horizontal LinearLayouts, and sometimes use wrap_content and sometimes use match_parent. Add a TouchEvent handler so that it turns yellow when you press/click on it. (8)	6