UNIVERSITY PAPER TYBSCIT SEM-VI MAY-2018

University Regular Exam-May-2018. Ty. BSc (I.T) Sem-VI Sub - Internet Technologies Q.P. Code: 36134 Date - 415/18 (21/2 hours)
Time - 11.00 Tol.30pm. **Total Marks: 75** N. B.: (1) All questions are compulsory. (2) Make suitable assumptions wherever necessary and state the assumptions made. (3) Answers to the same question must be written together. (4) Numbers to the <u>right</u> indicate marks. (5) Draw <u>neat labeled diagrams</u> wherever necessary. (6) Use of Non-programmable calculators is allowed. 1. Attempt any two of the following: 10 What are the responsibilities of Transport layer in OSI Model? a. b. Explain Subnetting giving example. Explain fields related to Fragmentation in detail. c. Write a note on Global Unicast Address that covers following: Definition, Three levels of hierarchy.

2.	Attempt any two of the following:	10
a.	Draw and explain ATMARP Packet.	10
b.	Explain Timestamp Request and Reply of ICMP.	
c.	Explain Data Transfer Phase of Mobile communication.	
d.	Explain two node instability problem in Distance vector routing and its solution.	
3.	Attempt any two of the following:	10
a.	Explain Features of UDP in detail.	10
b.	Write and Explain algorithm of input module of UDP.	
c.	Draw and explain TCP Segment Format.	
d.	Explain Timers in TCP.	
4.	Attempt any two of the following:	10
a.	Explain Association establishment in SCTP.	10
b.	Explain Data Chunk of SCTP with its packet format.	
c.	Draw and explain DHCP client state transition diagram.	
d.	Explain Recursive and Iterative Resolution in DNS.	
5.	Attempt any two of the following:	10
a.	Explain NVT character set for option negotiation.	10
, b.	Explain Components of SSH.	
c.	Explain two FTP connections, control and data with diagram.	
d.	Explain DATA and ACK message of TFTP.	
6.	Attempt any two of the following:	10
a.	What is the role of Message Access Agent in email communication? Explain POP and IMAP.	10
b.	Explain Web Based E-Mail.	
c.	Draw and explain RTP packet format.	
d.	How do you download a compressed audio/video using a web server and using a media server?	

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7.	Attempt	any three	of the	following:
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- a. Write points of comparison between IPv4 and IPv6.
- b. Explain types of links available in OSPF.
- c. Explain Congestion policy of TCP.
- d. Explain Generic Domain, Country Domain, and Inverse Domain.
- e. Explain Persistence and non-persistence connection of HTTP.
- f. How does Video compression (MPEG) happen?

	University Regular Exam May-2018.	, i
	TYB-Sc (I.T) Sem-VI O.P. Code: 36130	
	sub - Project Management.	
	1) at e - 3/5/2018 hours) Time - 11:00 To 1.30 pm. [Total Marks: 75]	
N. B.:	 (1) <u>All</u> questions are <u>compulsory</u>. (2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made. 	
	(3) Answers to the <u>same question</u> must be <u>written together</u> .	
	(4) Numbers to the <u>right</u> indicate <u>marks</u> .	
	(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
	(6) Use of Non-programmable calculators is allowed.	
	Attempt <u>any two</u> of the following:	10
	Explain Boehm's principle for examining how to staff for software project.	
b. с.	Explain the three levels of processes and its attributes. What are the five basic parameters that are involved in estimating the cost of a software	
	project?	
	Explain the five symptoms of a project that is headed for trouble.	
2.	Attempt any two of the following:	10
a.	List out the life-cycle phases of modern software development process. State the	10
	objectives of each phase.	
	Briefly explain the different artifacts in the management set.	
	Explain the technical perspective of software architecture.	
d.	Map the process exponent parameters of the COCOMO II model to the principles of a modern process	
3.	Attempt any two of the following:	10
a.	What is a workflow? Describe the major workflows involved in software development.	10
b.	Write short note on life-cycle architecture milestone. List the engineering artifacts available at the life-cycle architecture milestone.	
c.	What is work breakdown structure? What are the issues associated with conventional	
d.	work breakdown structure? Write short note on minor milestones in a project life-cycle.	
u.	write short note on inmor ninestones in a project me-cycle.	
4.	Attempt any two of the following:	10
a.	With the help of diagram explain the default roles and responsibilities in a software line-of-business organization.	
b. /	Briefly explain the four important disciplines that are critical to the management	
1	context and the success of a modern iterative development process.	
C./	What is configuration baseline? What are the different types of software change?	
d.	Explain the activities of software management team over the project life cycle.	
5.	Attempt any two of the following:	10
a.	Explain the quality indicators that provide an indication of the quality of software	
	system.	
	metrices. List out the basic characteristics of a good metric.	

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- c. Summarize process discrimination that result from difference in stakeholder cohesion.
- d. With the help of diagram explain the two primary dimensions of process variability.

6. Attempt any two of the following:

10

- a. With the help of diagram explain the difference between the progress profile of a modern project and conventional project.
- b. Explain how a software cost model should be structured to best support the estimation of a modern software process.
- c. Briefly explain the culture shifts in order to avoid friction in transitioning to modern software process.
- d. How does balancing the top 10 software management principles achieve balance in software economics equation?

7. Attempt any three of the following:

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- a. State Boehm's top 10 principles about conventional software management performance.
- b. Write short note on requirement and design set.
- c. Explain top-down and bottom-up approach of cost and schedule estimating process.
- d. Explain the automation aids and tool components that support the process workflows.
- e. Define the following terms
 i)Earned value ii)Actual Cost iii) Cost variance iv)Expenditure plan v)Schedule variance
- f. List the characteristics of modern iterative development framework. Explain the steps to follow to transition to a mature iterative development process.

TYIT I sem. 8/5/2402010 Cyber laws

(2½ hours)

[Total Marks: 75]

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N.	B.: (1) All questions are compulsory.	
	(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made	0
	(3) Allowers to the same question must be written together	C .
	(4) Numbers to the <u>right</u> indicate marks.	
	(5) Draw <u>neat labeled diagrams</u> wherever necessary	
	(6) Use of Non-programmable calculators is allowed.	
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1.	r merting.	
a.	Explain the basic principles of design rights.	
b.	a diademark, what are its full tilling	
c.	and a copyright. What are its characteristics?	
d.	List out the basic principles of trademark.	
2.	T MAY THE TOHOWING.	1
a.	Explain how to enforce data protection.	-
b.	Explain the concept of Semi Conductors? State & explain Semiconductor IC layout design act.	
c.	Write a short note on WIPO Treaty.	
d.	Explain the procedure for registration of domain names.	
	replace the procedure for registration of domain names.	
3.	Attempt any two of the following:	1
a.	What are the rights and duties of a patentee are enforced? Explain	1
b.	Explain copy right in connection with establishing good will	
c.	Discuss transfer of patent rights in the form of assignment	
d.	What are the defenses available in case of infringement of patents? Explain.	
4.	Attempt any two of the following:	
a.	What are the advantages of IP licensing? Explain.	1
b.	Explain in brief the civil remedies in enforcing intellectual property rights.	
c.	Explain practical aspects of licensing.	
d.	Explain the general Obligations for enforcement of Intellectual Property Rights.	
5	한 유민이 그리다 하다 있는데 회사사를 가지 않는데 그리고	
5.	Attempt any two of the following:	1(
a.	Explain Uniform Domain-Name Dispute Resolution Policy in detail	11
b.	A Explain Cyber Jurisprudence in detail.	
C.	Explain the functions performed by the certifying authorities	
d.	Explain briefly the issues of Enforcement of rights relevant to patent protection in	
	digital media.	
6.	Attempt any two of the following:	
1.	Explain the powers of Cyber Appellate Tribunal.	10
) .	What does chapter 5 of IT Act 2000 "Secure Floatronia"	
10	What does chapter 5 of IT Act, 2000, "Secure Electronic records and secure digital signatures" specify? Explain briefly.	
	Explain the roles and responsibilities Computer Francisco	
1.	Explain the roles and responsibilities Computer Emergency Response Team. What does Chapter 13 of IT Act, 2000, "Miscellaneous" talk about?	
	in the second of the fact, 2000, will scell an eous "talk about"?	

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7.	Attempt any three of the following:	

- a. List out the basic principles of design rights.
- b. Write short notes on TRIPS.
- c. What are the rights granted for registration of design? Explain.
- d. Categorize and explain the licensing format.
- e. Explain the term "Privacy". What are the privacy issues for data and software?
- f. What kinds of documents are not covered under IT Act, 2000? Explain.

TYIT - W sem 7/5/2018 Ogtawarhousing. P. Code: 36137

(2½ hours)

	[Total Marks: 75	I
N.	B.: (1) All questions are compulsory.	
	(2) Make suitable assumptions wherever necessary and state the assumptions	
	(5) This wers to the same question must be written together	
	(4) Numbers to the <u>right</u> indicate marks.	
	(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
	(6) Use of Non-programmable calculators is allowed.	
1.		15
a.	Differentiate between OLTP Database and Data Warehouse Database	.1
b.	write a short note on Dimensional Model	
c.	Explain the different types of developing strategies to be considered before developing a Data Warehouse.	
d.	Define Data Warehouse. Explain its characteristics.	
2.		
a.	Attempt <u>any two</u> of the following:	- 10
b.	What is a Design Center? Explain the three main windows of it.	
c.	Explain with the help of diagram OWB components and architecture.	
d.	List and explain the steps to configure the Repository and Workspace. What is a Module? Write the steps to configure the Repository and Workspace.	
	What is a Module? Write the steps to create Oracle Database Module.	
3.	Attempt any two of the following:	10
a.	Explain the different tabs of the Cube Editor in the Data Object Editor	10
b.	write a flote off OWB design objects	
C.	Explain the four characteristics that have to be defined for every dimension.	
d.	Write the steps to create a Time dimension using Time dimension wizard.	
4.	Attempt any two of the following:	
a.	What is Staging? Explain the factors on which staging depends.	10
b.	Define Constraint. Explain types of Constraints	
c	Explain any five Source and Target operators	
d.	What is ETL? Explain the manual ETL process.	
5.	Attempt any two of the following:	
a.	What is Validation? Explain the process of validation in Design Center.	10
b.	Explain any three transformation operators.	
c.	Explain the three main default operating modes of a mapping.	
d.	Explain the features and benefits of Oracle Warehouse Builder.	
	아이 화가 있다. 선생이 시간 요요? 그리고	
6.	Attempt any two of the following:	10
1.	Explain the term Data Sparsity and Data Explosion with example.	
).	what is a Snapshot? Explain its type.	
ا د د	Explain the following features of Integrated ROLAP.	
100	i) Parallelization. ii) Data Partitioning	

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Explain the role of Recycle Bin in OWB.

7.	Attempt any three of the following:	1
a.	Explain the three levels of Data Redundancy to be considered while creating a Data	
	Warehouse	

- b. What is a Listener? Write down the steps to configure a Listener.
- c. Explain the following.
 - i) Surrogate identifier and Business identifier.
 - ii) Birds eye view window.
- d. Explain any three Data Flow Operators of OWB.
- e. Explain the Object Details Window of Control Center Manager.
- f. Explain the different Matching and Synchronizing Strategies to be used while Synchronizing objects.