

(DMSIT01)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, DEC. – 2017

First Year
INFORMATION TECHNOLOGY

Basics of IT

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Define flowchart? Draw the symbols used and state their purposes.
- Q2)* What is OS? Discuss its functions.
- Q3)* Elaborate the role of IT in modern organizations.
- Q4)* What is a network? Explain different type of network topologies.
- Q5)* What is MIS? Explain the role of MIS in an organization.
- Q6)* What is web browser? List different browsers.
- Q7)* Write a short note on EDP.
- Q8)* Write about different types of printers.
- Q9)* What are the applications of e-commerce.

(DMSIT01)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, DEC. – 2017

First Year
INFORMATION TECHNOLOGY
Basics of IT

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Write about LAN Topologies.
- Q2)* Write about TCP/IP
- Q3)* Differentiate between Internet and Extranet.
- Q4)* What are the responsibilities of a database administrator.
- Q5)* What is a switch?
- Q6)* Define Data Mining.
- Q7)* What is a GPS?
- Q8)* Differentiate between data and information.
- Q9)* Define software.



(DMSIT02)

ASSIGNMENT-1

M.Sc. DEGREE EXAMINATION, DEC. – 2017

First Year

INFORMATION TECHNOLOGY

(Paper – IX) : Computer Networks

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Differentiate between TCP/IP and OSI Reference Models.
- Q2)* Explain in detail the Error Detection and Correction Techniques.
- Q3)* Explain in detail the SMTP and HTTP Protocols.
- Q4)* Write about connectionless and connection-oriented transport UDP & TCP.
- Q5)* Explain in detail the Routing in the Internet.
- Q6)* Write about NAPS and ISPS.
- Q7)* Write about electronic mail in the internet.
- Q8)* Write about connectionless transport.
- Q9)* Write about network service modes.

(DMSIT02)

ASSIGNMENT-2

M.Sc. DEGREE EXAMINATION, DEC. – 2017

First Year

INFORMATION TECHNOLOGY

(Paper – IX) : Computer Networks

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Write about point-to-point protocol.
- Q2)* Write LAN address and ARP.
- Q3)* What is protocol? List out different types.
- Q4)* Define Ethernet.
- Q5)* What are switches and Hubs?
- Q6)* What is addressing?
- Q7)* What is meant by network core?

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(DMSIT03)

ASSIGNMENT-1

M.Sc. DEGREE EXAMINATION, DEC. – 2017

First Year

INFORMATION TECHNOLOGY

(Paper – III): Computer Organization

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Write down different instruction formats in detail.
- Q2)* Explain about the generations of computers.
- Q3)* Explain in detail the multiplication algorithm.
- Q4)* What is instruction cycle? Explain instruction sub-cycle.
- Q5)* Explain Basic computer registers with Common Bus Structure.
- Q6)* Write a short note on shift registers.
- Q7)* Explain the 'Seek Time' and 'Rotational Delay'.
- Q8)* Write about full adder and half adder.
- Q9)* Explain the power pc processor organization.

(DMSIT03)

ASSIGNMENT-2

M.Sc. DEGREE EXAMINATION, DEC. – 2017

First Year

INFORMATION TECHNOLOGY

(Paper – III): Computer Organization

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Explain multiple bus organization.
- Q2)* Write about full adder and half adder.
- Q3)* How data is read from magnetic disk.
- Q4)* Explain different logic gates with the diagram.
- Q5)* What is a Register?
- Q6)* What is an interrupt?
- Q7)* What is an assembler?
- Q8)* What is pipeline?
- Q9)* What is a bus?



(DMSIT 04)

ASSIGNMENT-1

M.Sc. DEGREE EXAMINATION, DECEMBER – 2017

First Year

INFORMATION TECHNOLOGY

Data Structures with C

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Explain Merge sort technique and apply it on the following values : 8, 3, 25, 6, 10, 17, 1, 2, 18, 5.
- Q2)** What is searching? Explain Binary search algorithm and its time complexity.
- Q3)** What is a Binary search Tree? Explain in detail the tree traversals with an example.
- Q4)** Describe clearly operations related to word processing with suitable examples.
- Q5)** What is recursion? Explain various types to recursions.
- Q6)** Explain loop control structures.
- Q7)** Write a C program to implement linear search.
- Q8)** State the operations on a binary tree.
- Q9)** Explain malloc(), calloc(), free() functions.

(DMSIT 04)

ASSIGNMENT-2

M.Sc. DEGREE EXAMINATION, DECEMBER – 2017

First Year

INFORMATION TECHNOLOGY

Data Structures with C

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Define queue and state its types.
- Q2)* Explain about records.
- Q3)* Define the following : pointer, dangling pointer and NULL pointer.
- Q4)* Implement simple queue as an ADT.
- Q5)* Define leaf node.
- Q6)* List operations in a DQUEUE.
- Q7)* What is an ADT?
- Q8)* Define a complete binary tree.
- Q9)* State any 2 applications of queues.



(DMSIT05)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, DEC. – 2017
First Year
INFORMATION TECHNOLOGY
Operating Systems
MAXIMUM MARKS:30
Answer ALL Questions

- Q1)* What are the components of OS and its services? Explain.
- Q2)* What is ISO protocol? Explain.
- Q3)* What is a deadlock? Explain deadlock prevention methods.
- Q4)* Explain in detail about directory structure.
- Q5)* Explain the types of security threats and goals.
- Q6)* Explain the functions of OS.
- Q7)* Explain different states of a process.
- Q8)* Differentiate between synchronous and asynchronous I/O.
- Q9)* Write a brief note on long and short term schedulers.

(DMSIT05)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, DEC. – 2017
First Year
INFORMATION TECHNOLOGY
Operating Systems

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Explain deadlock characterization.
- Q2)* What is cache memory? State its purpose.
- Q3)* Explain LRU page replacement algorithm.
- Q4)* What is swap space? Explain.
- Q5)* Define segmentation.
- Q6)* Define Thrashing.
- Q7)* What is PCB?
- Q8)* What is disk scheduling?
- Q9)* What is Relocation?

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(DMSIT06)

ASSIGNMENT-1

M.Sc. DEGREE EXAMINATION, DEC. – 2017

(First Year)

INFORMATION TECHNOLOGY

Database Management System

MAXIMUM MARKS: 30

Answer ALL Questions

- Q1)* What is File organization? Describe various categories of file organizations.
- Q2)* Explain network model in detail.
- Q3)* Describe the importance of Database Recovery? How is it achieved?
- Q4)* Explain any 4 Normal Forms.
- Q5)* Illustrate DDL commands with suitable examples.
- Q6)* Discuss about classification of Information System.
- Q7)* What is an Entity? Explain.
- Q8)* Explain join command and its types.
- Q9)* Explain the ACID properties of a Transaction.

(DMSIT06)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, DEC. – 2017
(First Year)
INFORMATION TECHNOLOGY
Database Management System

MAXIMUM MARKS: 30

Answer ALL Questions

- Q1)* Write a short note on primary key, secondary key and super key.
- Q2)* Write a short note on Relational Calculus.
- Q3)* Differentiate between view and table.
- Q4)* How is concurrency achieved in DBMS.
- Q5)* What is Data Integrity?
- Q6)* What are integrity constraints?
- Q7)* What is Timestamp?
- Q8)* Define deadlock.
- Q9)* What is aggregation?

