

c)	Write a short note on application of IT in the Education Sector.	CO4	5
Q.N.4. Attempt any two parts of the following:			
a)	Write short note on control statements and loop structure in C languages.	CO5	5
b)	Explain the difference between hardware and software in detail.	CO2	5
c)	Differentiate between break and continue statements in C language.	CO5	5
Q.N.5. Attempt any two parts of the following:			
a)	Write a program to find the factorial of a number.	CO5	5
b)	Discuss E-Commerce and payment methods.	CO3	5
c)	What is web browsing and desktop publishing?	CO6	5
Q.N.6. Attempt any two parts of the following:			
a)	Write a program to print Fibonacci Series.	CO5	5
b)	Write about Ergonomics in health care in concern of IT.	CO7	5
c)	Differentiate between Internet, Intranet and Extranet.	CO1	5

Table 1: Mapping between COs and questions
(Number of COs may vary from course to course)

COs	Questions Numbers	Total Marks
CO1	Q1 a),c),e), Q2 a), Q6 c)	14
CO2	Q1 b),d), Q2 c),Q4 b)	13
CO3	Q1 f), Q5 b)	6
CO4	Q3 c)	5
CO5	Q2 b), Q3 b),Q4 a),c), Q5 a),Q6 a)	31
CO6	Q1 h),Q5 c),	6
CO7	Q3 a),Q6 b)	10
CO8	Q8 g),Q2 d)	7

OK
PMS

Instructions if any: Read the question Carefully.

SECTION 'A'		Course Objective	Marks
Q.N.1. Attempt all parts of the following:			
a)	What is the main function of computer?	CO1	1
b)	How is PDA helpful to us?	CO2	1
c)	What do you mean by GUI?	CO1	1
d)	Give the full form of PSTN.	CO2	1
e)	List any 3 computer output devices.	CO1	1
f)	What is super computer?	CO3	1
g)	Explain role of Client and Server in client-server architecture.	CO8	1
h)	Define the term operating system.	CO6	1
SECTION 'B'		Course Objective	Marks
Q.N.2. Attempt any two parts of the following:			
a)	Discuss in detail about Software Development Life Cycle.	CO1	6
b)	Write a program which takes numbers and gives corresponding month name using a switch case.	CO5	6
c)	Write about the evolution of Computers.	CO2	6
d)	What is Network? Explain the different types of Network.	CO8	6
SECTION 'C'		Course Objective	Marks
Q.N.3. Attempt any two parts of the following:			
a)	Write a short note on ISDN.	CO7	5
b)	Write a program to print a table for a given number.	CO5	5

- (c) Differentiate with details between internet and intranet.
6. (a) What is meant by Data Communication? Why is a communication network required for information transfer.
- (b) Explain the following :
- (i) Firmware
 - (ii) 4GL
 - (iii) UNIX
- (c) Why is program development considered as an important activity? Explain.

3. (a) Explain the major advances in each generation in the evolution of computer technology, up to the present day computers.
- (b) What are I/O devices? List some of the important I/O devices.
- (c) Elaborate on the concept of language translators.
4. (a) What is a digital computer? Describe its main components with the help of a neat diagram.
- (b) What is internet? Discuss the application of internet in medical field with special emphasis on WEB 2.0
- (c) What is the difference between high level and low level languages? How assembly level language is different from them? Write an example of each.
5. (a) What is SDLC? Draw and explain each phase of SDLC.
- (b) Explain RAM and ROM in detail. Also explain its types.

- (f) Define data and information with suitable example.
- (g) What is a super computer?
- (h) What is GUI?

SECTION – B

2. Attempt any two parts of the following : $2 \times 6 = 12$
- (a) Discuss briefly about the following :
 - (i) Multitasking
 - (ii) Multiprogramming
 - (b) What is an operating system? Explain the functions of an operating system.

- (c) Draw the basic block diagram to explain the basic organization of computer system and explain the function units.
- (d) Differentiate between primary memory and secondary memory along with suitable examples.

SECTION – C

Note :- Attempt all questions. Attempt any two parts from each question. $5 \times 8 = 40$

B. Tech. Examination 2022-23

(Odd Semester)

FOUNDATION OF INFORMATION TECHNOLOGY

Time : Three Hours]

[Maximum Marks : 60

Note :- Attempt all questions.

SECTION-A

1. Attempt all parts of the following : $8 \times 1 = 8$

- (a) Write the functions of the control unit.
- (b) What is BIOS?
- (c) What is meant by utility programs?
- (d) Write the role of assembler.
- (e) What do you mean by Network topology?

/P. T. O.