

Term End External Examination 1st Semester (Session-Feb 2025)

Subject: Value Added Course

Course No and Title: DTS022/Digital and Technological Solutions

Time: 1.15 hours Max Marks:50 Min. Marks:20

Section A: Objective Type Questions

Q1. Choose the appropriate Answer: (4x1.5=06)

i. Which of the below shape is used for condition checking in flow charts?

- A Oval B Rectangle
C Diamond D Square

ii. What is the primary function of an operating system?

- A Provide a user interface B Manage hardware resources
C Execute user applications D All of the above

iii. What is the main aim of Digital India?

- A To promote e-commerce B To increase online education
C To transform India into a digitally empowered society D To create more job opportunities

iv. Which technology is used for verifying online transactions securely?

- A Blockchain B Cryptocurrencies
C Virtual Reality D Digital Signatures

Section-B: Descriptive Type Questions (Short Type)

Q2: Answer all the Questions (4 x 4 =16)

- i. Design a flow chart and write an algorithm to check whether a number is prime or not.
ii. Discuss the role and significance of e-commerce in the digital age.
iii. What is meant by the term "blockchain" and how does it benefit

financial transactions?

iv. Define Cyber security and mention five common Cyber threats.

Section – C: Descriptive Type Questions (Medium Type)

Answer all the questions: (2 x 7=14)

Q3. What are the benefits and challenges of e-commerce and digital marketing in the current era of digital world?

OR

Discuss the following in detail:

a) WWW b) Web Browser c) Search Engine

Q4. Explain the different types of digital financial tools, such as UPI, e-wallets and internet banking.

OR

What is the role of emerging technologies like Big Data, IoT, and AI in the medical science? Support your answer with examples.

Section – D: Descriptive Type Questions (Long Type)

Answer any one of the following: (1 x 14=15)

Q5. a). Write an algorithm which will check the greatest number among the three numbers. (8 Marks)

b). Explain the role of communication systems and transmission media in facilitating global communication. (6 Marks)

Q6. Explain Internet of Things (IoT) , Blockchain , Cryptocurrency, Artificial Intelligence and Virtual Reality (VR). Also explain how are these emerging technologies shaping the future?

**Answer Key for Course No: DTS223V DIGITAL AND TECHNOLOGICAL
SOLUTIONS**

SECTION A

1 C

2 B

3 C

4 D

Mandatory Information of Paper Setter

Name: Dr. Bilal Maqbool Beigh

Designation: Assistant Professor

E-Mail: bilal.beigh@gmail.com

Mobile No. 9419371194

No of Sets: 01

Course No. with

Title:

DTS022 DIGITAL AND TECHNOLOGICAL SOLUTIONS