PART – A (compulsory) (20 x 1 = 20 marks)

Q.1 Fill in the blanks: [5 marks]

a) _____________ is a piece of hardware device that provides a physical connection between a network and connected computers.

b) _____________ technology is a wireless communication technology standard that is used for exchanging data over short distances.

c) _____________ is a type of wireless technology that uses radio frequency electromagnetic field to transfer data files.

d) _____________ is an organised collection of data held in a logical and integrated manner.

e) _____________ is a data that describes other data.

Q.2 Match the following: [5 marks]

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Dot Matrix printers</td>
<td>a. Network Device</td>
</tr>
<tr>
<td>2. Arithmetic Logical unit</td>
<td>b. MS Excel</td>
</tr>
<tr>
<td>3. Software</td>
<td>c. Set of Instructions</td>
</tr>
<tr>
<td>4. Router</td>
<td>d. Part of CPU</td>
</tr>
<tr>
<td>5. Sparkline feature</td>
<td>e. Output device</td>
</tr>
</tbody>
</table>

Q.3 True or False: [5 marks]

a) ERP supports the organisation with an integrated view of business processes.

b) Internet of Things (IOT) is a system of interrelated computing devices, machines, objects connected over internet.

c) Printers are used to produce a hard copy.

d) Goal Seek is a feature of MS-Word.

e) System designing takes into account the different processes from the architecture to the required hardware and software.

Q.4 Abbreviations (Please write fill forms): [5 marks]

a) MIS  b) HTTP  c) DNS  d) ASCII  e) MIME
PART – B
(Answer Any Three. Each question carry 20 marks) (60 Marks)

Q.5 Explain OSI model of Networking.

Q.6 What is Data Mining?

Q.7 What is SDLC?

Q.8 Explain System Software & Application Software with examples.

Q.9 Write brief information of the following: Any Two (2 x 10 = 20 marks)
   a) Cloud Computing.
   b) Artificial Intelligence
   c) Network Topologies
   d) Benefits of E-Commerce.

PART - C [ Compulsory ]

Q.10 Read the Case and answer the questions. (20 marks)

Foundry company of 100cr turnover wants to investigate the possibility and scope of improvement of current IT & e-commerce and also security of data which was last reviewed in year 2010. You as an external consultant prepare a detailed report highlighting the step by step approach in implementing changes.

Questions (5x4 = 20 marks)
   a) List all changes which are required.
   b) What systems should be implemented for real-time reporting, Storage of data, Security of information.
   c) List and explain Information systems to be implemented.
   d) Where modern technologies like AI, Cloud computing and IOT will be applied.
   e) Mention about use of Cryptography and cyber security.

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