Section 1: Multiple Choice Questions (15 Marks)

Every question carries 1 mark

Q1. Choose the appropriate answer:

1) A communications medium that consists of one or more central wires surrounded by thick insulation is called _____ cable.

   A. Coaxial
   B. Fiber Optic
   C. Twisted Pair
   D. Microwave

2) Computer systems rely on which of the following components?

   A. Input, processing, output, storage, and control
   B. Input, processing, output, storage, and the Internet
   C. The Internet, processing, output, storage, and control
   D. Input, processing, output, the Internet, and control

3) A system that can change itself or its environment in order to survive is _____ system.

   A. a control
   B. a self-monitoring
   C. an environmental
   D. an adaptive

4) The central processing unit (CPU) consists of:

   A. the Control unit and the RAID unit
   B. Arithmetic-logic unit and the RAID unit
   C. the RAID unit and the Fuzzy Logic unit
   D. the Control unit and the Arithmetic-logic unit

5) In telecommunications networks, multiplexers:

   A. Convert digital signals to analog and vice versa
   B. Allow a single communications channel to carry multiple simultaneous data transmissions
   C. Include bridges, routers, hubs, and gateways, which interconnect a local area network with other local and wide area networks
   D. Make connections between communications circuits in a network

6) Customer service and sales order entry are ----------

   A. middleware
   B. legacy systems
   C. front office system
   D. Back office system

7) What is the permanent memory built into your computer called?

   A. RAM
   B. CPU
   C. CD-ROM
   D. ROM

8) A company that provides easy access to the Internet is:

   A. ISP
   B. NIC
   C. POTS
   D. None of the above

9) Database administrator is involved in

   A. Monitoring of database
   B. Development of database
   C. Development and administration of database
   D. Administration and, monitoring of database

10) All of the following are fundamental reasons for business applications of information technology except:

   A. Support of strategies for competitive advantage
   B. Support of business processes and operations
   C. Compliance with environmental regulations
   D. Decision making support

11) A strategic information system can be any kind of information system that uses information technology to help an organization _____.

   A. gain a competitive advantage
   B. reduce a competitive disadvantage.
   C. meet strategic enterprise objective
   D. all of the above choices are correct.

12) The average number of tickets sold daily online is an example of

   A. Input
   B. Raw data
   C. Information
   D. Feedback

13) An international standard query language found in many Database Management System packages.

   A. SQL
   B. HTML
   C. XML
   D. Java Script

14) Telecommunications networks consist of _____.

   A. computers, the Internet, intranets, and extranets
   B. communications processors
   C. devices interconnected by communication media and controlled by communications software
   D. All of the choices are correct

15) Fiber optics uses cables consisting of one or more hair-thin filaments of _____ fiber wrapped in a protective jacket.

   A. Glass
   B. Plastic
   C. Ceramic
   D. Nylon

Section 2: True/False Questions (15 Marks)

Every question carries 1 mark

Q2. Please specify whether the following statements are true or false.

1) The telecommunications industry has changed from a deregulated market to government-regulated monopolies. (True / False)

2) A programming language allows a programmer to develop the sets of instructions that constitute a computer program (True / False)

3) Explicit knowledge involves the "how-to" knowledge that resides in workers.
(True / False)

4) Transaction processing systems process data in two basic ways: batch processing and real-time processing. (True / False)

5) Transactions are events that occur as a part of doing business, such as sales, purchases, deposits, withdrawals, refunds and payments.
(True / False)

6) The output devices of a computer system can include video display units, scanners, and printers. (True / False)

7) High speed storage media cost less per byte and provide higher capacities than lower-speed storage media. (True / False)

8) Database development involves using transaction processing systems and other tools to add, delete, update, and correct the data in a database.
(True / False)

9) Lack of database integrity causes major problems in application program development and maintenance. (True / False)

10) Midrange computers are often used as network servers in order to help manage large Internet websites, corporate intranets and extranets, and client/server networks. (True / False)

11) The input devices of a computer system include video display units, printers, audio response units, and so on. (True / False)

12) An *intranet* is a network inside an organization that uses Internet technologies to provide an Internet-like environment within the enterprise.
(True / False)

13) Output from analog devices must be converted into digital form in order to input it into a computer. (True / False)

14) An organization is considered an open system when it interfaces and interacts with other systems in its environment. (True / False)

15) HRM function involves the recruitment, evaluation, and development of the employees of an organization. (True / False)

Section 3: Subjective Questions (20 Marks)

All questions carry equal marks

Provide short answers to the following questions

Q3 (a). List the three basic types of Network Topologies with appropriate diagrams?

(5 Marks)

Q3 (b). Explain (i) Grid computing and list the (ii) advantages and disadvantages of using grid computing to create mini supercomputers. (5 Marks)

Q4 (a). What are the benefits of a relational database? (5 Marks)

Q4 (b). Explain the difference between the direct access memory and the sequential access memory. (5 Marks)

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