# 2021

## FUNDAMENTALS OF COMPUTER — GENERAL

### Paper : DSE-5.1 eB

### (Module I & II)

### Full Marks : 80

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words
as far as practicable.*

Answer *any eight* questions.

1. Describe third and fourth generation computing devices with suitable examples.     10

2. Write short notes on :
    (a) Motherboard
    (b) Ports.     5+5

3. Discuss in brief the "Programmer visible registers" and "Status and control registers".     5+5

4. Explain the following terms :
    (a) System Bus
    (b) Processor.     5+5

5. Discuss different types of RAM and ROM.     5+5

6. Write short notes on :
    (a) Cache memory
    (b) Automated Tape Library.     5+5

7. Explain the different functions of input devices.     10

8. What do you mean by operating system? Discuss its functions.     3+7

9. (a) Explain various advantages of flowcharts.
    (b) Write a brief note on 'Algorithm'.     7+3

**10.** A Nationalized Bank has the following policy to its depositors :

On deposits of ₹ 10,000 or above and for three years or above, the interest payable is 10% p.a. on deposits for the same amount and for less than three years, the interest is 8% p.a. and on deposits below ₹ 10,000 the interest rate is 5% p.a. irrespective of the period.

Draw a flowchart to compute the interest for the above given information and print the same.    10

**11.** Explain the following terms :

  (a) Micro Computer

  (b) Ring Topology.    5+5

**12.** A company provide home delivery for its products and bills delivery charges according to the distance and the amount of the bill. If the distance of customer and company's office is less than or equal to 5 km, no delivery charges are levied. If the distance is more than 5 km but less than 15 km, the delivery charges are 2% of the bill amount. However, if the bill amount is more than ₹ 1,000 then a concessional rate of 1% is levied. If the distance is more than or equal to 15 km, the delivery charges are 5% but if the bill amount is more than ₹ 1,000 then 2% delivery charges are levied.

  – Draw a decision table.    10

**13.** Explain the various advantages of a computer network.    10

**14.**   (a) Distinguish between Analog and Digital Transmission.

  (b) Write notes on : Simplex and Half-Duplex    4+(3+3)

**15.** Explain the building blocks of multimedia.    10

**16.** Discuss the various applications of multimedia in business.    10

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