BUSINESS MATHEMATICS HSSC-I
SECTION – A (Marks 10)
(2019)

Time allowed: 15 Minutes

Version Number	3	1	8	1

Note: Section – A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which should be completed in the first 15 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there. Each part carries one mark.

1) If $2:7::x:49$, then value of x is:

   A.   4   B.   14

   C.   52   D.   28

2) Amount is equal to:

   A.   Principal + Interest   B.   Principal – Interest

   C.   Principal × Interest   D.   Principal ÷ Interest

3) If payments starts on a certain date and continues for an indefinite period, then it is called:

   A.   Ordinary Annuity   B.   Annuity Due

   C.   Perpetuity   D.   Contingent Annuity

4) The root of $x^2 + 2x + 1 = 0$ is:

   A. -1 B.   2

   C. -2 D.   1

5) The roots of $ax^2 + bx + c = 0$, $a \neq 0$ are real and unequal if:

   A. $b^2 = 4ac$ B. $b^2 > 4ac$

   C. $b^2 < 4ac$ D. $b^2 + 4ac = 0$

6) If $f(x) = \dfrac{x}{x+2}$, $x \neq -2$ then $f(-1) =$:

   A.   0   B. $\dfrac{1}{2}$

   C. -1

7) The value of determinant of every identity matrix is always:

   A.   0   B.   1

   C.   2   D.   3

8) $(10110)_2$ in decimal number system is:

   A.   20   B.   22

   C.   24   D.   26

9) If $\dfrac{2x}{7} + 1 = 0$, then value of x is:

   A. $\dfrac{-2}{7}$ B. $\dfrac{2}{7}$

   C. $\dfrac{7}{2}$ D. $\dfrac{-7}{2}$

10) Commission on Rs. 3500 was Rs. 175, the rate of commission is:

   A.   5%   B.   3%

   C.   4%   D.   20%