

# BOARD QUESTION PAPER : FEBRUARY 2020

## MATHEMATICS AND STATISTICS

Time: 3 Hours

Max. Marks: 80

### General Instructions:

The question paper is divided into FOUR sections.

- Section A: Q. 1 contains Eight multiple choice type of questions carrying Two marks. Q. 2 contains Four sub-questions each carrying One mark each.
- Section B: Q. 3 to Q. 14 each carries Two mark. (Attempt any Eight)
- Section C: Q. 15 to Q. 26 carries Three marks. (Attempt any Eight)
- Section D: Q. 27 to Q. 34 each carries Four marks. (Attempt any Five)
- Use of log table is allowed. Use of calculator is not allowed.
- Figures to the right indicate full marks.
- Use of graph paper is not necessary. Only rough sketch of graph is expected.
- For each MCQ, correct answer must be written along with its alphabet:  
e.g. (a) ——— / (b) ——— / (c) ——— / (d) ——— etc.
- Start answers to each section on a new page.

### SECTION - A

Q.1. Select and write the most appropriate answer from the given alternatives for each question: [16]

- In  $\triangle ABC$ , if  $a = 2$ ,  $b = 3$  and  $\sin A = \frac{2}{3}$ , then  $\angle B =$  \_\_\_\_\_  
 (A)  $\frac{\pi}{4}$  (B)  $\frac{\pi}{2}$  (C)  $\frac{\pi}{3}$  (D)  $\frac{\pi}{6}$  (2)
- If  $\vec{a} = 3\hat{i} - \hat{j} + 4\hat{k}$ ,  $\vec{b} = 2\hat{i} + 3\hat{j} - \hat{k}$  and  $\vec{c} = -3\hat{i} + 2\hat{j} + 3\hat{k}$ , then  $\vec{a} \cdot (\vec{b} \times \vec{c})$  is \_\_\_\_\_  
 (A) 100 (B) 110 (C) 109 (D) 108 (2)
- The cartesian equation of the line passing through the points  $A(4, 2, 1)$  and  $B(2, -1, 3)$  is \_\_\_\_\_  
 (A)  $\frac{x-4}{2} = \frac{y-2}{3} = \frac{z-1}{-2}$  (B)  $\frac{x-4}{-2} = \frac{y-2}{-3} = \frac{z-1}{-2}$   
 (C)  $\frac{x-4}{2} = \frac{y-2}{3} = \frac{z-1}{-2}$  (D)  $\frac{x-4}{-2} = \frac{y-2}{3} = \frac{z-1}{-2}$  (2)
- If the line  $\vec{r} = (\hat{i} - 2\hat{j} + 3\hat{k}) + \lambda(\hat{i} + \hat{j} + 2\hat{k})$  is parallel to the plane  $\vec{r} \cdot (3\hat{i} - 2\hat{j} + m\hat{k}) = 10$ , then value of  $m$  is \_\_\_\_\_  
 (A) -2 (B) 2 (C)  $\pm 2$  (D) 0 (2)
- If  $f(x) = 1 - x$ , for  $0 \leq x \leq 1 + k$ , for  $x = 0$  is continuous at  $x = 0$ , then  $k =$  \_\_\_\_\_  
 (A) 0 (B) -1 (C) 2 (D) 1 (2)
- The function  $f(x) = x^e$  is minimum at  $x =$  \_\_\_\_\_  
 (A)  $e$  (B)  $-e$  (C)  $\frac{1}{e}$  (D)  $-\frac{1}{e}$  (2)
- If  $\int_0^k 4x^2 dx = 16$ , then the value of  $k$  is \_\_\_\_\_  
 (A) 1 (B) 2 (C) 3 (D) 4 (2)

# Hsc Board Maths Question Paper 201

**M Lipman**



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