

# 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  $\Delta ABC$ , 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  $\int_0^1 4x^2 dx = 16$ , then the value of  $k$  is \_\_\_\_\_  
 (A) 1 (B) 2 (C) 3 (D) 4 (2)

# Question Papers Of Hsc 201

**Michael Seilmaier**



**Question Papers Of Hsc 201:**

## **Question Papers Of Hsc 201** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Question Papers Of Hsc 201**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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