Mathematics

SECTION 1 (Maximum Marks: 12)

- This section contains FOUR (04) questions.
- Each question has FOUR options (A), (B), (C) and (D). ONLY ONE of these four options is the
- For each question, choose the option corresponding to the correct answer.
- Answer to each question will be evaluated according to the following marking scheme:

; +3 If ONLY the correct option is chosen;

0 If none of the options is chosen (i.e. the guestion is unanswered);

Negotive Marks: -1 In all other cases.

0.1 Let $f:[1,\infty)\to\mathbb{R}$ be a differentiable function such that $f(1)=\frac{1}{2}$ and

 $3\int_{1}^{x} f(t)dt = x \ f(x) - \frac{x^2}{2}, \ x \in [1,\infty)$. Let e denote the base of the natural logarithm. Then the value of f(e) is

(A)
$$\frac{e^2 + 4}{3}$$

(A)
$$\frac{e^2+4}{3}$$
 (B) $\frac{\log_2 4+e}{3}$ (C) $\frac{4e^2}{3}$ (D) $\frac{e^2-4}{3}$

(C)
$$\frac{4e^3}{3}$$

(D)
$$\frac{e^3 - 4}{3}$$

American C.

Consider an experiment of tossing a coin repeatedly until the outcomes of two consecutive tosses 0.2 are same. If the probability of a random toss resulting in head is $\frac{1}{2}$, then the probability that the experiment stops with head is

$$(A)$$
 $\frac{1}{3}$

(B)
$$\frac{5}{21}$$

(B)
$$\frac{5}{21}$$
 (C) $\frac{4}{21}$

(D)
$$\frac{2}{7}$$

Answer: B

0.3 For any $y \in \mathbb{R}$, let $\cot^{-1}(y) \in (0,\pi)$ and $\tan^{-1}(y) \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$. Then the sum of all the solutions of the equation $\tan^{-1}(\frac{6y}{0-y^2}) + \cot^{-1}(\frac{9-y^2}{6y}) = \frac{2\pi}{3}$ for 0 < |y| < 3, is equal to

(A)
$$2\sqrt{3} - 3$$

(B)
$$3-2\sqrt{3}$$
 (C) $4\sqrt{3}-6$ (D) $6-4\sqrt{3}$

Answer: C

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Tao Wei

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Whispering the Strategies of Language: An Emotional Journey through Answer Keys Of Jeemains 2014 Paper2 Code K

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