Time Allowed: 2 hours   **Maximum Marks: 40**

General Instructions:

1. This question paper contains three sections – A, B and C. Each part is compulsory.

2. Section - A has 6 short answer type (SA1) questions of 2 marks each.

3. Section – B has 4 short answer type (SA2) questions of 3 marks each.

4. Section - C has 4 long answer-type questions (LA) of 4 marks each.

5. There is an internal choice in some of the questions.

6. Q 14 is a case-based problem having 2 sub-parts of 2 marks each.

Section A

1. Prove that: $\int_{0}^{\pi/2} \frac{\cos^{1/4} x}{\left(\sin^{1/4} x + \cos^{1/4} x\right)} dx = \frac{\pi}{4}$ **[2]**

OR

Evaluate: $\int x^3 e^x dx$

2. Write the order and degree of the differential equation $y = x \frac{dy}{dx} + a\sqrt{1 + \left(\frac{dy}{dx}\right)^2}$.   **[2]**

3. For what value of a the vectors $2\vec{i} - 3\vec{j} + 4\hat{k}$ and $a\vec{i} + 6\vec{j} - 8\hat{k}$ are collinear?   **[2]**

4. Find the cartesian and vector equations of the planes through the line of intersection of the planes $\vec{r} \cdot (\hat{i} - \hat{j}) + 6 = 0$ and $\vec{r} \cdot (3\hat{i} + 3\hat{j} - 4\hat{k}) = 0$ which are at a unit distance from the origin.   **[2]**

5. A can solve 90% of the problems given in a book and B can solve 70%. What is the probability that at least one of them will solve the problem, selected at random from the book?   **[2]**

6. An electronic assembly consists of two sub-systems say A and B. From previous testing procedures, the following probabilities are assumed to be known: **[2]**

P (A fails) = 0.2

P (B fails alone) = 0.15

P (A and B fail) = 0.15

Evaluate the following probabilities.

(1) $P\left(\overline{A}|\overline{B}\right)$

(2) P(A fails alone).

Section B

7. Evaluate: $\int \frac{(x^2 + 1)}{(x-1)^2(x+3)} dx$.   **[3]**

8. Solve the following differential equation $\frac{dy}{dx} = 1 + x^2 + y^2 + x^2 y^2$, given that y = 1, when x =   **[3]**

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BK Singh

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