	BCM SCHOOL BASANT AVENUE DUGRI ROAD LUDHIANA **ASSIGNMENT OF INTEGRALS** **XIISC**	
1	1 dxsin2x cos² x **is equal to** **(a) sin² x – cos² x + C** **(b) -1** **(c) tan x + cot x + C** **(d) tan x – cot x + C**	
2	$\int \frac{\sin x + \cos x}{\sqrt{1+\sin 2x}} dx, \frac{3\pi}{4} < x < \frac{7\pi}{4}$ is equal to **(a) log |sin x + cos x|** **(b) x** **(c) log |x|** **(d) -x**	
3	∫ x4+1x2+1**dx is equal to** **(a)** x33 **+ x + tan^{-1} x + c** **(b)** x33**– x + tan x + c** **(c)** x33 **+ x + 2tan^{-1} x + c** **(d)** x33**– x + 2tan^{-1} x + c**	
4	**Evaluate: ∫(2tan x – 3cot x)^2 dx** **(a) -4tan x – 9cot x – 25x + C** **(b) 4tan x – 9cot x – 25x + C** **(c) -4tan x + 9 cot x + 25x + C** **(d) 4tan x + 9cot x + 25x + C**	
5	**Find ∫sin^{6}x/cos^{8}x dx**	
6	**Evaluate**∫ tan3xtan2xtanx𝑑 x	
7	Find $\int \frac{x-5}{(x-3)^3} e^x dx$.	
8	Find $\int \frac{2\cos x}{(1-\sin x)(2-\cos^2 x)}$ dx	
9	Find $\int \frac{\sqrt{x}}{\sqrt{a^3-x^3}}$ dx.	
10	Question 66: Find $\int \frac{dx}{\sin x + \sin 2x}$ dx.	