

SUBJECT: Mathematics EXAM II-Annual 2022 CLASS: II-Y
 GROUP: 01 DATE: 07-12-22

(GENERAL INSTRUCTIONS FOR MARKING KEY)

$$\int \frac{1}{x-a} dx = \int \frac{1}{x+a} dx$$

$$\ln(x-a) - \ln(x+a) + c \quad (1M)$$

$$\ln\left(\frac{x-a}{x+a}\right) + c$$

$$(ix) \quad y-5 = \frac{1}{0} (x+8) \quad (1M)$$

$$x+8 = 0 \quad (1M)$$

$$(x) \quad A(-6,3), B(5,-2)$$

$$\text{ratio } 2:3$$

$$x = \frac{2 \cdot 5 + 3(-6)}{2+3} = \frac{-8}{5}$$

$$y = \frac{2(-2) + 3(3)}{2+3} = \frac{5}{5} = 1$$

$$\left(-\frac{8}{5}, 1\right) \quad (2M)$$

$$(xi) \quad 3x - 5y + 8 = 0$$

M.bay (-1)

PREPARED BY

Sr.#	Name	Desig.	Institution	Mobile No.	Signature
1	محمد طارق	A.P	G.G.C SWL	03009696228	mm
2	عنه	A.P	G.G.C SWL	0301500339	lhn

RE-CHECKED BY

تم نے درج ذیل سوال پرچہ (انٹرمیڈیٹ) اور ریاضیات کے حوالے سے مکمل طور پر تصدیق کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

Sr.#	Name	Desig.	Institution	Mobile No.	Signature
1	Akshar Ali	L.C.	G.G.C Swl	8829449	A.A.
2	احسان	A.P	G.G.C Swl	9342-7043348	11 Sec

$$-3x + 5y - 8 = 0 \rightarrow (i)$$

$$\text{put } x = 2, y = 3 \text{ in L.H.S of } i$$

$$-3(2) + 5(3) - 8$$

$$= -6 + 15 - 8 = 1 > 0$$

above the line

(1M)

$$\& \text{ put } x = -2, y = 3 \text{ also}$$

$$-3(-2) + 5(3) - 8$$

$$= 6 + 15 - 8$$

$$= 13 > 0 \text{ above the line}$$

same side of the line

(1M)

$$(xii) \quad \tan \theta = \frac{m_2 - m_1}{1 + m_2 m_1}$$

$$= \frac{5}{2} - \left(-\frac{7}{3}\right) \quad (1M)$$

$$= \frac{29}{-29} = -1$$

$$\theta = \tan^{-1}(-1) = 135^\circ \quad (1M)$$