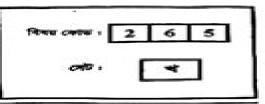
বরিশাল বোর্ড

বছনিবাচনি কটাকা উত্তেশ্যের পাশিক

(২০২৩ সালের সিলেবাস **অনুযায়ী**)

नामक—-२० विनिष्ट

পূৰ্বাহ্যাৰ ১৫

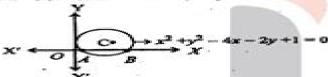


বিশেষ দ্রটিব্য : সরবরাহকৃত বহুনির্বাচনি অস্তীকার উত্তরপত্রে *বালের আমিক* নগতের বিশরীতে প্রণত বর্ণনর্থনিত বৃত্তসমূহ হতে স্তিক/সর্বোৎকৃষ্ট উর্বেহর কুরটি হল পড়েন্ট কলম ছারা সম্পূর্ব জরাট কর । প্রতিটি প্রয়ের মান ১ ।]

ব্যাপত্রে কোনো প্রকার দান/চিক্ দেয়া ঘাবে না।

$$3: A = \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix} \Leftrightarrow B = [a \ b] \Leftrightarrow BA = \Rightarrow \Rightarrow f$$

নিচের তথ্যের আলোকে ৪ ও ৫ নং প্রপ্লের উতর দাও।



- 8 । वागत गुरुवन रकत C सरमा-(*)(1,1)(*)(2,2)(*)(1,2)((2,1)
- e। AB এর দৈর্ঘ্য করে।
 - (PF) 2 45PPF 2 1/3 477
- (**4**) 4 week
- (g) √3 499

(P) 0

(4)

(41) $\frac{1}{2}$

৭।
$$x^2 + y^2 = 4$$
 স্থানের $(-1, \sqrt{3})$ বিন্দুতে স্পর্ণাকের স্থীকরণ কোন্টিঃ

- $-\sqrt{3}y + 4 = 0$
- (4) $x = \sqrt{3}y = 4 = 0$
- (4) $\sqrt{3}x-y+4=0$
- (4) $\sqrt{3}x-y-4=0$

৮। ABC बिश्रुटबार किमीर पाए a = 3, b = 4 धार. c = 5 $L = 5 = 4 \cos A + 3\cos B$

$$H. \quad \cos \frac{C}{2} = \frac{1}{\sqrt{2}}$$

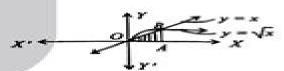
নিচেৰ কোনটি সঠিকঃ

- 1 10 M (4) H + HI
- (A) 1 4 111 CYD- I, II W IN
- $\int_{-x-1}^{3} \frac{\ln(x-1)}{x-1} dx$ कर मान करू
 - (3F) 2 ln2

(4) $\frac{1}{2} \ln 2$

5.5 1

- $\frac{1}{2}(\ln 2)^2$
- (0, 1) বিশ্ব মতে $x^2 + y^2 8x 6y + 21 = 0$ বুবের উপর অঞ্চিত স্পর্গকের শৈর্ঘ্য কতঃ



ভিতৰ ক্ষরাবের। কালের ক্ষেত্রকা করু বর্গ একক।

C=0 I

- $32.1 \quad y = \tan^{-1} \frac{4x}{1 4x^2} \approx \frac{dy}{dx} = 767$
 - (9) $\frac{2}{1+4x^2}$ (4) $\frac{2}{1-4x^2}$ (7) $\frac{4}{1-4x^2}$

[न्दर जुके। अधिका

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web diesel locomotives were introduced in indian railways in late 1950s when first lot of diesel locomotives was imported from m s alco usa with the setting up of diesel locomotive works dlw at varanasi in the year 1961 the additions to diesel locomotive fleet started at a regular pace

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web diesel locomotives shaped the indian railways to what we see it as today with the arrival of the america wdm 1 india has produced thousands of diesel locomotives of different types most of which still remain operational wdm 2 bought way back in 1960s was modified and shaped into tens of different locos that ruled railways for well over 40

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web in the year 1957 indian railways imported its first mainline diesel locomotive from the american locomotive company alco in new york and classified it as wdm1 the wdm1 17000 was the first locomotive of the class after which about one hundred of these locomotives were imported in india for operation in the eastern and south eastern

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web the alco dl560c is a series of diesel electric locomotive with ac electric transmission designed by the american locomotive company and produced under license by banaras locomotive works blw varanasi india for indian railways as their classes wdm 2 wdm 3a 2c wdm 3d and wdg 3a for operation in india

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web the indian railways primarily operates a fleet of electric and diesel locomotives along with several compressed natural gas cng locomotives steam locomotives are operated on a few world heritage sites and also run occasionally as heritage trains a locomotive is also known as a loco or more popularly as an engine

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