



ગુજરાત માધ્યમિક અને ઉચ્ચતર માધ્યમિક શિક્ષણ બોર્ડ, ગાંધીનગર
ધોરણ-12 (વિજ્ઞાન પ્રવાહ) ગણિત (050)
વાર્ષિક પરીક્ષા

PART - B

સમય : 2 કલાક

કુલ ગુણ : 50

- સૂચનાઓ : (1) સ્પષ્ટ વંચાય તેવું હસ્તલેખન જાળવવું.
(2) આ પ્રશ્નપત્રના ભાગ-B માં ત્રણ વિભાગ છે અને 1 થી 18 પ્રશ્નો આપેલા છે.
(3) બધા જ પ્રશ્નો ફરજિયાત છે. આંતરિક વિકલ્પો આપેલા છે.
(4) પ્રશ્નની જમણી બાજુના અંક તેના ગુણ દર્શાવે છે.
(5) નવો વિભાગ નવા પાના પર લખવો.
(6) પ્રશ્નોના જવાબ ક્રમમાં લખવા.
(7) વિદ્યાર્થીઓ જરૂર જણાય ત્યાં સાદા કેલક્યુલેટર અને Log-table નો ઉપયોગ કરી શકશે.

વિભાગ : A

- નીચે આપેલા 1 થી 8 સુધીના પ્રશ્નોની ગણતરી કરી ટૂંકમાં જવાબ આપો.
(દરેકના 2 ગુણ) [16]
- 1. સાબિત કરો કે, $\tan^{-1} \sqrt{x} = \frac{1}{2} \cos^{-1} \left(\frac{1-x}{1+x} \right)$, $x \in [0, 1]$
- 2. $\sqrt{\frac{(x-3)(x^2+4)}{3x^2+4x+5}}$ નું x ને સાપેક્ષ વિકલિત મેળવો.
- 3. $\int \frac{(x+1)(x+\log x)^2}{x} dx$ શોધો.
- 4. રેખા $y = 3x + 2$, $x =$ અક્ષ અને રેખાઓ $x = -1$ અને $x=1$ વડે આવૃત્ત પ્રદેશનું લેટ્રકળ શોધો.
- 5. ઉપવલય $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ થી આવૃત્ત પ્રદેશનું લેટ્રકળ શોધો.
અથવા
- 5. $y = 4x^2$, $y = 1$, $y = 4$ વડે આવૃત્ત પ્રદેશનું લેટ્રકળ શોધો.
- 6. જો એકમ સદિશ $\hat{i}$, $\hat{j}$ સાથે $\frac{\pi}{3}$ માપનો, $\hat{j}$ સાથે $\frac{\pi}{4}$ માપનો અને $\hat{k}$ સાથે લઘુકોણ $\odot$ માપનો ખૂણો બનાવે, તો $\odot$ શોધો અને તે પરથી $\hat{k}$ ના પટકો શોધો.
- 7. બિંદુ $(5, 2, -4)$ માંથી પસાર થતી અને સદિશ $3\hat{i} + 2\hat{j} - \hat{k}$ ને સમાંતર રેખાનું સદિશ અને કાર્તેઝિય સમીકરણ મેળવો.

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