

BOARD OF INTERMEDIATE EDUCATION (AP)

HALF YEARLY EXAMINATIONS - 2023

JUNIOR INTER MATHEMATICS - 1A

MODEL PAPER (English Version)

Time: 3 Hours

Max.Marks: 75

SECTION - A

Note: (i) Very short answer type questions.

(ii) Answer All question.

(iii) Each question carries Two marks.

1. If $A = \{-2, -1, 0, 1, 2\}$ and $f: A \rightarrow B$ is a surjection defined by $f(x) = x^2 + x + 1$ then find B .
2. Let $f(x) = x^2$, $g(x) = 2^x$ then solve the equation $(\log f(x)) = (g \circ f)(x)$.
3. Find the domain of the real valued function $f(x) = \log(x^2 - 4x + 3)$.
4. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$, $B = \begin{bmatrix} 3 & 8 \\ 7 & 2 \end{bmatrix}$ and $2x + A = B$ then find x .
5. If $A = \begin{bmatrix} -1 & 2 & 3 \\ 2 & 5 & 6 \\ 3 & x & 7 \end{bmatrix}$ is a symmetric matrix then find x .

13. If $\tan 2\theta = p$ then prove that $\frac{\tan 6\theta + \tan 7\theta}{\tan 3\theta + \tan 4\theta} = \frac{1-p^2}{1+p^2}$

14. If $A + B = \frac{\pi}{4}$ then prove that

(i) $1 + \tan A \tan B = \tan B$

(ii) $\tan A - 1 \tan B = 1$

17. Evaluate $\sin^2 \frac{\pi}{2} - \sin^2 2\frac{\pi}{2}$.

SECTION - C

Note: (i) Long answer type questions.

(ii) Answer any Five questions.

(iii) Each question carries Seven marks.

18. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ and $g: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 4x + 3$ and $g(x) = 3x + 4$ then find

(i) $f \circ g$ (ii) f^{-1} (iii) $g \circ f$ (iv) $f^{-1} \circ g$ (v) $g \circ f^{-1}$ (vi) $f^{-1} \circ g^{-1}$

19. If f and g are real valued functions defined by $f(x) = 2x + 1$ and $g(x) = x^2$ then find

(i) $(f \circ g)(x)$ (ii) $(g \circ f)(x)$ (iii) $\left(\frac{f}{g}\right)(x)$ (iv) $(f \circ g) \circ f$

20. Solve the following simultaneous linear equations by using Cramer's rule

$3x + 4y + 5z = 18$, $2x + y + 3z = 13$, $5x + 2y + 7z = 20$

AP Jr inter MATHS 1A Half yearly
question paper 2023-24

Junior Inter Maths Guide

DP Hallahan



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