MATHEMATICS

Duration: Three hours   *Maximum Marks: 150*

> **Note:** The symbols R, Q, I and C denote the set of all real, rational, integer and complex numbers respectively. Vector quantities are denote by bold letters.

SECTION A (75 Marks)

1. This question consists of Thirty (30) sub-questions, each carrying two marks. For each sub-question one or more of the suggested alternatives may be correct. The alphabet corresponding to the correct alternative(s) MUST be written only in the boxes corresponding to the questions in the first sheet of the answer book.

1.1 Let W be the space spanned by $f = \sin x$ and $g = \cos x$. Then for any real value of θ, $f_1 = \sin(x + \theta)$ and $g_1 = \cos(x + \theta)$.

   (a) Are vectors in W

   (b) Are linearly independent

   (c) Do not form a basis for W

   (d) Form a basis for W

1.2 Consider the basis $S = \{v_1, v_2, v_3\}$ for R^3 where $v_1 = (1,1,1), v_2 = (1,1,0)$, $v_3 = (1,0,0)$ and let $T: R^3 \to R^2$ be a linear transformation such that $Tv_1 = (1,0), Tv_2 = (2,-1), Tv_3 = (4,3)$. Then $T(2,-3,5)$ is

   (a) $(-1,5)$

   (b) $(3,4)$

   (c) $(0,0)$

   (d) $(9,23)$

1.3 For $0 < \theta < \pi$, the matrix $\begin{bmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{bmatrix}$

   (a) Has no real eigen value

   (b) Is orthogonal

   (c) Is symmetric

   (d) Is skew symmetric

1.4 For the function $f(z) = \dfrac{1 - e^z}{z}$, the point $z = 0$:

   (a) An essential singularity

   (b) A pole of order zero

   (c) A pole of order one

   (d) Is skew symmetric

1.5 The transformation $w = e^{i\alpha}\left(\dfrac{z - p}{\bar{p}z - 1}\right)$ where p is a constant, mops $|z| < 1$ on to

   (a) $|w| < 1$ if $|p| < 1$

   (b) $|w| > 1$ if $|p| > 1$

   (c) $|w| = 1$ if $|p| = 1$

   (d) $|w| = 3$ if $p = 0$

1.6 The value of the integral $\oint_c \dfrac{dz}{z^2 - 1}, C : |z| = 4$ $\oint_c \dfrac{dz}{z^2 - 1}, C : |z| = 4$ is equal to

   (b) 0

   (d) $2\pi i$

1.7 Let E be the set of all rational p such that $2 < p^2 < 3$. Then E is

   (a) Compact in Q

   (b) Closed and bounded in Q

   (c) Not compact in Q

   (d) Closed and unbounded in Q

1.8 Let A be the set of points in the interval (0,1) representing the numbers whose expansion as infinite decimals do not

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