

SECTION - B

MULTIPLE SELECT QUESTIONS (MSQ)

Q. 31 – Q. 40 carry two marks each.

Q. 31 For each $t \in (0, 1)$, the surface P_t in $\mathbb{R}^3$ is defined by

$$P_t = \{(x, y, z) : (x^2 + y^2)z = 1, t^2 \leq x^2 + y^2 \leq 1\}.$$

Let $a_t \in \mathbb{R}$ be the surface area of P_t . Then

(A) $a_t = \iint_{t^2 \leq x^2 + y^2 \leq 1} \sqrt{\frac{4x^2}{(x^2 + y^2)^4} + \frac{4y^2}{(x^2 + y^2)^4}} dx dy$

(B) $a_t = \iint_{t^2 \leq x^2 + y^2 \leq 1} \sqrt{1 + \frac{4x^2}{(x^2 + y^2)^2} + \frac{4y^2}{(x^2 + y^2)^2}} dx dy$

(C) the limit $\lim_{t \rightarrow 0^+} a_t$ does NOT exist

(D) the limit $\lim_{t \rightarrow 0^+} a_t$ exists

Q. 32 Let $A \subseteq \mathbb{Z}$ with $0 \in A$. For $r, s \in \mathbb{Z}$, define

$$rA = \{ra : a \in A\}, \quad rA + sA = \{ra + sb : a, b \in A\}.$$

Which of the following conditions imply that A is a subgroup of the additive group $\mathbb{Z}$?

(A) $-2A \subseteq A, A + A = A$

(B) $A = -A, A + 2A = A$

(C) $A = -A, A + A = A$

(D) $2A \subseteq A, A + A = A$

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SJ Ball



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