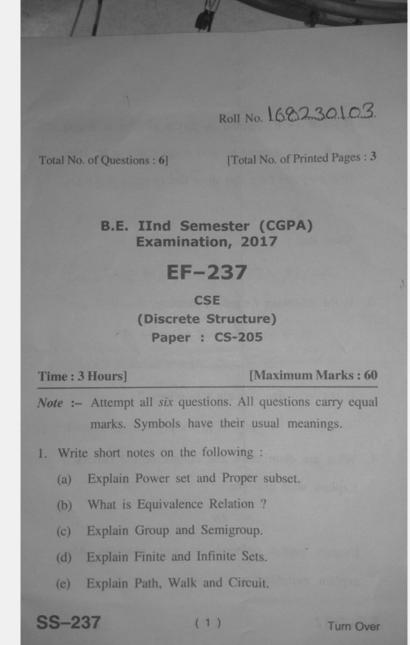
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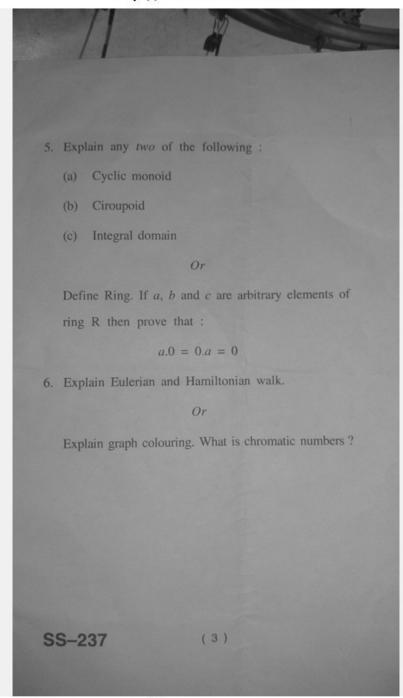
2. If $f: \mathbb{R} \to \mathbb{R}$, defined by $f(x) = x^2 \ \forall \ x \in \mathbb{R}$ and $g: R \to R$, defined by $g(x) = \sin x \ \forall \ x \in R$. Then find $g \circ f$ and $f \circ g$ also show that $(g \circ f) x \neq (f \circ g)x$. Or Show that: $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$ 3. Is the following formula a tautology? $(p \rightarrow q) \land (q \rightarrow r) \rightarrow (p \rightarrow r)$ Is the following formula a tautology? $p \to [p \land (q \to p)]$ 4. What are distributive and complemented lattices ? Explain with example. Or Explain partial ordering set with example. Also explain morphism. SS-237 (2)

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