Final Examination

MD. Jobayer Rahman

ID: 011192070

CSE - 2233 (B)

Amito. the question NO. (I)

000001233 函 5 - 005B m 0000053 DO0533 Im 0000 A233 m 0000 B233 1m,0000001233 1m 000001233 5 300 053 P 000A33.A233 15 0000 B233 1500000B1233 57000001233 ithis is Ambiguous.

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Am. to. the question NO. (2)

2

S → aSb | bSa | aSa | bSb | A A → OP1 | 1 PO | OPO | IP1 1 C

6

S > XX SYYY \ XX #YYY

Am. to. the question NO. (3)

Step-1

$$5. \rightarrow S$$
 $5 \rightarrow 053 \mid 0053 \mid A$
 $A \rightarrow 0A2 \mid 0A22 \mid B$
 $B \rightarrow 0B1 \mid 253 \mid C$
 $5. \rightarrow 51C$
 $5. \rightarrow 51C$
 $5. \rightarrow 51C$
 $5. \rightarrow 51C$
 $5. \rightarrow 663 \mid 0053 \mid A \mid 03 \mid 003$
 $5. \rightarrow 061 \mid 253 \mid 01123$
 $5. \rightarrow 061 \mid 253 \mid 01123$
 $5. \rightarrow 061 \mid 253 \mid 01123$
 $5. \rightarrow 063 \mid 0053 \mid 003 \mid 0042 \mid 00423 \mid 0123$
 $5. \rightarrow 063 \mid 0063 \mid 031 \mid 003 \mid 0042 \mid 00423 \mid 00421 \mid 00423 \mid 00423 \mid 00421 \mid 00423 \mid 00421 \mid 00423 \mid$

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Step-4

5. -> A8 A1 | A8A2 | A8A3 | A8 A3 A8 A5 | A8 A6 | A8 A7 | A9 A1 A8A10 | A8A9 | A8A11 | A9 A101 E

5-> A8A1 | A8A2 | A8A3 | A8A4 | A8A5 | A8A6 | A8A7 | A9A1 | A8A10 | A8A9 | A8A11 | A9A10 A8A10 | A8A9 | A8A11 | A9A10

A > A8A4 | A8A5 | A8 A6 | A8 A7 A3 A2 | A8 A9 | A8A11 | A9 A10

B-> A8Ax | A9A1 | A8A11 | A9

A, -> 5A10

A27 A8A1

A3 -> A8A10

A4-) AA9

ASTAA6

Ab - Ag Ag

A7 > BA11

A8 -> C

Ag-2

A10-3

 $A_{\parallel} \rightarrow 1$

5 -> ACO1 | O5 | 15 | A1

A > B | CA | E

€ >012

B -> 11 B | OOB | E

Step-2

5₆ → 5

5-7 ACOITOS/15/A1/CO1/1

A > BlCA 1 C

c > 011

B > 11B 100B 1 11100

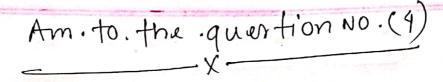
 $\frac{5+ep-3}{5.} \rightarrow ACOI |05| \frac{15|A1|}{1-2|A1|} \frac{CO1|1}{1-2|A1|}$ S -> ACO 1 | 05 | 15 | A 1 | COI | 1

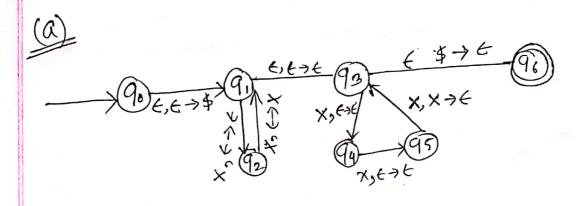
A -> CA : 1118 | OOB | 11 | OO | II | O

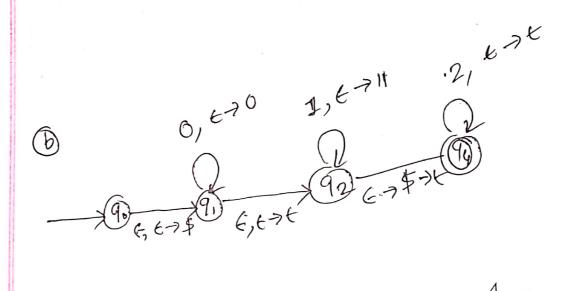
e > 0 1 1

B -> 11B100B1 11100

Step-4 30 > 2 | A A | CA2 | A58 | A65 A A6-5 -> 1 | AA, 1 CA2 | A55 | A65 | AA6 A -> CA | 0 | 1 | A6 A3 | A5 A3 | A6 A6 1.A5 A5 B -> A6A3 | A5A4 | A6A6 | A5 A5 C >0 | 1 | A1-) CA2 A 2 > A5A6 A3 > A6B A4-) A5B A5 -) 0 A671







Am