

RGPV 2014

Q. Construct DFA equivalent to the NFA

 $M = (\{p, q, r, s\}, \{0, 1\}, \delta, p, \{q, s\})$ Where δ is defined in the following table.

δ	0	1
p	{q, s}	{q}
q	{r}	{q, r}
r	{s}	{p}
s	-	{p}

Ans.

State	0	1
[p]	[q, s]	[q]
[q]	[r]	[q, r]
[q, s]	[r]	[q, r, p]
[r]	[s]	[p]
[q, r]	[r, s]	[q, r, p]
[q, r, p]	[q, s, r]	[p, q, r]
[s]	Φ	[p]
[r, s]	[s]	[p]
[q, s, r]	[r, s]	[p, q, r]

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