	(Following Paper ID ##GP091 No. to be filled in you Answer Books)	
'ap	pper ID : 110603 Roll No.	ш
	в.тесн.	
	Theory Examination (Semester-VI) 2015-16	
	COMPILER DESIGN	
îme	ne: 3 Hours Max. Mari	ks : 100
ote	te: Attempt questions from all Sections as per di	rections.
	Section-A	
tte	tempt all parts of this section. Answer in brief.	
	(2	×10=20)
Į.	(a) What is cross compiler?	
	(b) Whal do you mean by a regular expression	1?
	(c) State the problems associated with the to parsing.	p down
	(d) Differentiate quadruples and triples.	
	(1)	P.T.O.
	15/139/496/12400	

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Construct an SLR (1) parsing table for the following

(10×5=50)

P < Q or R < S and T < U

following expression

Discuss

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<u>©</u>

Define backpatching and semantic rules for Boolean

expression. Derive the three address code for the

<u>a</u> case 1: x =x+1 switch a+b

case 2: y = y+2

case 3: z=z+3

default :c=c-I Generate three address code for the following code

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 $S \rightarrow Aa \mid bAc \mid Be \mid bBa$

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11: If I<=20 goto (3)

Perform Loop Optimization.

- Write short notes:
 - (i) Global Data Flow Analysis
 - (ii) Loop Unrolling
 - (iii) Loop Jamming

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