specification.			No. of Printed Pages : 4 Roll No	405050/405050
Q.31 Explain routh's hurwitza crieterion.			TON TWO:	125956/105956
Q.32 Define ro	oot locus.			
SECTION-D			Subject : Basic Control Systems	
Note:Long answer type questions. Attempt any three			Time: 3 Hrs.	M.M. : 100
question	questions. (3x10=30)		SECTION-A	
Q.33 Illustrate the difference between linear and non linear system.			Note: Objective type questions. All questions are compulsory. (10x1=10)	
Q.34 How an amplydene works.			Q.1 Define control system	٦.
Q.35 Explain working and applications of magnetic amplifier.Q.36 Define Automatic control system.			Q.2 Define feedback.	
			Q.3 Write mason's gain formula.	
			Q.4 Close loop system (True/False)	Consists of feedback
			Q.5 Draw the symbol of comparator.	
			Q.6 Define close loop.	
			Q.7 The system $(\frac{1}{e^2} + 1)$ have order	
			Q.8 A node having only incoming branch calls	
(40)	(4)	125956/105956	(*	125956/105956

Q.9 Linear system follow_____ principle.

Q.10 Define system.

SECTION-B

Note: Very Short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

Q.11 Define open loop

Q.12 Define ampledyne.

Q.13 List two advantages of close loop system.

Q.14 Describe order of the system.

Q.15 Define path.

Q.16 Define non touching loops

Q.17 Define rise time. (tr)

Q.18 Describe Steady state error.

Q.19 Define stability.

Q.20 Define poles and zero's

Q.21 Define k.

Q.22 No of branches=____

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SECTION-C

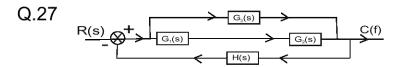
Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

Q.23 Differentiate between open loop system and close loop system.

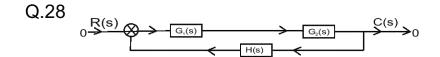
Q.24 Explain transfer function.

Q.25 Describe linear system.

Q.26 Explain block diagram reduction method with an example.



Solve the diagram with block diagram reduction method.



Solve the diagram with mason's gain formula.

Q.29 Explain parabolic function.

Q.30 Write down any three time response

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