Program: BE Electrical Engineering

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VII

Course Code: **EEDLO7033** Course Name: Industrial controller

Time: 1hour Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

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Q1.	The test book of PID deals with		
Option A:	Gain constants		
Option B:	Time constants		
Option C:	Both gain constant and time constant		
Option D:	Either gain constant or time constant		
Q2.	The controller which works satisfactorily for the steady state error reduction is		
Option A:	P controller		
Option B:	I controller		
Option C:	D controller		
Option D:	PID controller		
Q3.	The controller known as predictive controller is		
Option A:	P controller		
Option B:	PI controller		
Option C:	D controller		
Option D:	PID controller		
Q4.	An I controller reduces the steady state error to zero but		
Option A:	It disturb the transient response		
Option B:	It reduces the over shoot		
Option C:	It changes the damping factor of the system		
Option D:	All the options are correct		
Q5.	A large proportional band		
Option A:	Means slow response		
Option B:	Can handle large range of error		
Option C:	Means not a good p controller		
Option D:	Means slow response and Can handle large range of error		
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Q6.	Which is not a closed loop PID tuning method		
Option A:	Quarter amplitude decay		
Option B:	Reaction curve method		

Option C:	Oscillation method		
Option D:	None of these		
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Q7.	In process reaction curve method of PID tuning		
Option A:	System is in open loop		
Option B:	System is in closed loop		
Option C:	System is in unity feedback		
Option D:	System is in shut down mode		
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Q8.	In quarter amplitude decay PID tuning the relation between the ultimate gain		
	and proportional gain is		
Option A:	Kp=Ku		
Option B:	Kp=0.5 Ku		
Option C:	Kp=0.4 Ku		
Option D:	Kp=10Ku		
Q9.	During the PID tuning using sustained oscillation method		
Option A:	System is of first order model and working with Kp only		
Option B:	System is of second order model and working with Kp only		
Option C:	System is of first order model and working in open loop		
Option D:	System can be modeled in any order and open loop or closed loop		
option 5:	System can be incucied in any order and open loop or closed loop		
Q10.	What is the form of Fuzzy logic?		
Option A:	Two-valued logic		
Option B:	Crisp set logic		
Option C:	Many-valued logic		
Option D:	Binary set logic		
Q11.	In Membership function graph x-axis represents?		
Option A:	Many-valued logic		
Option B:	degrees of membership in the [0, 1] interval		
Option C:	degrees of discourse		
Option D:	Universe of membership		
Q12.	The vertical line of ladder diagram is known as and the horizontal		
	line is known as		
Option A:	Rail and rung		
Option B:	Rung and rail		
Option C:	Power and ground		
Option D:	+ and -		
Q13.	By maintaining an energized ladder relay circuit after a push button is released		
425.	function(s) is/are performed		
Option A:	Latching		
Option B	An interlocking		
Option C:	Both latching and interlocking		
Sparon C.	Source and a memoral p		

Option D:	Stop		
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Q14.	A personal password is stored in the file		
Option A:	System function		
Option B:	Subroutine		
Option C:	Reserved		
Option D:	Program		
Q15.	Word address include		
Option A:	Counters		
Option B:	Controls		
Option C:	Timers		
Option D:	All the options are correct		
Q16.	MOV instruction require the following number of inputs from programmer		
Option A:	1		
Option B:	2		
Option C:	3		
Option D:	4		
Q17.	Following is the task not performed by programming unit		
Option A:	Uploading		
Option B:	Downloading		
Option C:	Forcing input		
Option D:	Executing		
Q18.	The results of division instruction is stored in		
Option A:	S:0, S:1		
Option B:	S:10, S:11		
Option C:	S:12, S:13		
Option D:	S:13, S:14		
010	How many counter elements are there in the data file of Allen Bradly SLCEOO DLC		
Q19. Option A:	How many counter elements are there in the data file of Allen Bradly SLC500 PLC 100		
Option B:	84		
•	256		
Option C:	16		
Option D:	16		
Q20.	An instruction always used with a Latch instruction is		
Option A:	END		
Option B:	Unlatch		
Option C:	RES		
Option D:	WAIT		
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Q21.	The numbers operated on by arithmetic instructions are taken from which of the following source		

Option A:	A specific memory address	
Option B:	Timers	
Option C:	Counters	
Option D:	All the options are correct	
Q22.	The numbers to be compared by compare instruction can be from	
Option A:	Timer	
Option B:	Counter	
Option C:	Specific memory	
Option D:	All of the options are correct	
Q23.	The counter reset instruction is used to clear the accumulated value of the	
	to zero	
Option A:	Up counter	
Option B:	Down counter	
Option C:	Both up and down counter	
Option D:	None of the given option	
Q24.	Jump instruction must be accompanied with	
Option A:	Return	
Option B:	Reset	
Option C:	Label	
Option D:	End	
Q25.	Bit shift instruction require following from programmer	
Option A:	Control setting	
Option B:	Bit address	
Option C:	Length of array	
Option D:	None of the given option	

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Question	Correct Option
Q1.	С
Q2.	А
Q3.	С
Q4	D
Q5	D
Q6	В
Q7	A
Q8.	В
Q9.	В
Q10.	С
Q11.	D
Q12.	А
Q13.	С
Q14.	А
Q15.	D
Q16.	В

Q17.	D
Q18.	D
Q19.	В
Q20.	В
Q21.	D
Q22.	D
Q23.	С
Q24.	С
Q25.	D