

University of Mumbai

Examination 2020 under cluster 5 (APSIT)

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Second Year Semester III

Course Code: **ECC305** and Course Name: Electronic Instrumentation & Control system

Time: 1 hour

Max. Marks: 50

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

Q1.	Static characteristics of an Instrument which
Option A:	Varying largely with time
Option B:	Varying slowly with the time
Option C:	Do not vary with the time
Option D:	Sometime varying with the time
Q2.	Which of the following are dynamic characteristics of an Instruments
Option A:	Drift and dead zone
Option B:	Sensitivity and linearity
Option C:	Precision and tolerance
Option D:	Speed of response and fidelity
Q3.	Hey bridge is used for Measurement of
Option A:	Low value of Resistance
Option B:	High value of inductance
Option C:	Low value of Capacitance
Option D:	Low value of Inductance
Q4.	Schering bridge is
Option A:	Active bridge
Option B:	Rectifier bridge
Option C:	A.C. bridge
Option D:	D.C. bridge
Q5.	In S.F.G. Nodes represent
Option A:	Summing point
Option B:	Takeoff point
Option C:	Block
Option D:	Both summing & Takeoff point
Q6.	To calculate 'Delta' in S.F.G.
Option A:	Add gain product of three non-touching loop
Option B:	Subtract gain product of three non-touching loop
Option C:	Do any thing

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Option D:	Neither add nor Subtract
Q7.	Gain between two Nodes known as -----.
Option A:	Self loop
Option B:	Loop
Option C:	Transmittance
Option D:	None of above
Q8.	O/P Node in SFG having
Option A:	In coming branches
Option B:	Out going branches
Option C:	coming and out going branches
Option D:	Can not say
Q9.	Which of following act as an Inverse Transducer
Option A:	RTD
Option B:	Piezo crystal
Option C:	Bellows
Option D:	Thermistor
Q10.	Steady state response is
Option A:	Before transient response
Option B:	Can be before or can be after transient response
Option C:	At the end of transient response
Option D:	In synchronous with transient response
Q11.	1 Atmospheric pressure is equals to
Option A:	10 psi
Option B:	15 psi
Option C:	14.696 psi
Option D:	11 psi
Q12.	In LVDT coils of secondary winding are connected in
Option A:	Parallel
Option B:	Series
Option C:	Either in series or in parallel
Option D:	series opposition
Q13.	In which compensator technique R & C components are in parallel
Option A:	In LAG
Option B:	In LEAD
Option C:	In both LEAD & LAG
Option D:	Cannot say
Q14.	For bounded I/P system response is having constant amplitude and freq.

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Option A:	System is unstable
Option B:	System is stable
Option C:	System is marginally stable
Option D:	System is conditionally stable
Q15.	Automatic washing M/C is an example of
Option A:	Close loop control system
Option B:	Complex control system
Option C:	Feed back control system
Option D:	Open loop control system
Q16.	Routh stability criterion applicable to -----.
Option A:	Linear system
Option B:	Non linear system
Option C:	Both Linear & Non linear
Option D:	Cannot say
Q17.	Steady state response of system when subjected to which I/p to get frequency response.
Option A:	Ramp
Option B:	Step
Option C:	Sinusoidal
Option D:	Square
Q18.	Frequency at which gain is unity known as -----.
Option A:	Phase cross over freq.
Option B:	Resonant freq.
Option C:	Gain cross over freq.
Option D:	Unity gain
Q19.	In BW magnitude drops beyond cut off freq. by (to plot Bode)
Option A:	3dB
Option B:	6dB
Option C:	2dB
Option D:	2.5dB
Q20.	Resultant line of Magnitude plot in Bode plot start from
Option A:	+ 20dB
Option B:	20 LogK value
Option C:	Log K value
Option D:	20 + 20 Log K value
Q21.	Which block appears after signal conditioning in DAC
Option A:	Multiplexor
Option B:	De multiplexer

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Option C:	Transducer
Option D:	Display
Q22.	Dynamometer type watt meter is used for measurement of
Option A:	A.C. power
Option B:	D.C. power
Option C:	A.C. as well as D.C. Power
Option D:	Cannot say
Q23.	In dynamometer type watt meter which coil split in two parts
Option A:	Fixed Coil
Option B:	Moving Coil
Option C:	Platinum Coil
Option D:	Rigid Coil
Q24.	Solar cell is example of which energy source?
Option A:	Renewable
Option B:	Non renewable
Option C:	Both Renewable and non-renewable
Option D:	Waste energy
Q25.	Centroid is part of RL
Option A:	False
Option B:	True
Option C:	May be or May not be
Option D:	Cannot say