# **PSPCL Previous Paper AE (OT) INSTRUMENTATION AND CONTROL**

27

	13	TEST CODE: PPA	MIN&C	SIII-
	2	<b>Question Paper</b>	Qu	estion Booklet No.
	Instrume	entation and Control, General Awaren	less, <u>1</u>	300442
		Reasoning and English		
<u> </u>		wed:2 Hrs. N THE PAPER SEAL OF THE BOOKLET		k. Marks :100 E TOLD TO DO SO
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	1. This Ques	tion-Booklet contains 100 Questions on the following	1g:-	
	Section	Subject	Q. No.	Total Ques.
	Part-I	Instrumentation & Control	1-60	60
	Part-II	General Awareness, Reasoning and English	61-100	40
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	INSTRUMENTATION & CONTROL
20	Q1) The most commonly used filters in SSB generation are :- a) Mechanical b) RC c) LC d) Low-pass
	<ul> <li>Q2) If the characteristic equation of a closed loop system is s<sup>2</sup> + 2s + 2 = 0. Then the system is:-</li> <li>a) over damped</li> <li>b) critically damped</li> <li>c) under damped</li> <li>d) undamped</li> </ul>
6 8. 20 5 8	<ul> <li>Q3) In a ratio detector:-</li> <li>a) the linearity is worse than in a phase discriminator</li> <li>b) stabilization against signal strength variation is provided</li> <li>c) the output is twice that obtainable from a similar phase discriminator</li> <li>d) the circuit is the same as in a discriminator, except that the diode are reversed</li> </ul>
A	<ul> <li>Q4) A transducer converts:</li> <li>a) mechanical energy into electrical energy</li> <li>b) mechanical displacement into electrical signal</li> <li>c) one form of energy into another form of energy</li> <li>d) electrical energy to mechanical energy</li> </ul>
	Q5)A resistance potentiometer is a :-a)first order instrumentb)zero order instrumentc)second order instrumentd)none of the above
	Q6)One of the following in an active transducer: -a)Strain gaugeb)LVDTc)Photo colt acc celld)Photo emissive cell
	Q7)Thermo couples are :-a)passive transducersb)active transducersc)both active and passive transducerd)output transducer
	<ul> <li>Q8) The rotor of a synchro transmitter:-</li> <li>a) uses a salient pole type of construction</li> <li>b) uses a cylindrical pole type of construction</li> <li>c) may use either salient pole or cylindrical type of construction</li> <li>d) none of the above</li> </ul>

<ul> <li>Q9) Capacitive transducers are normally used for :-</li> <li>a) static measurements</li> <li>b) dynamic measurements</li> <li>c) both static and dynamic measurements</li> <li>d) transient measurements</li> <li>A (10) Piezo-electric transducers are :-</li> <li>a) passive transducers</li> <li>b) active transducers</li> <li>c) inverse transducer</li> <li>d) active and inverse transducers</li> </ul>	
<ul> <li>b) dynamic measurements</li> <li>c) both static and dynamic measurements</li> <li>d) transient measurements</li> <li>A Q10) Piezo-electric transducers are :-</li> <li>a) passive transducers</li> <li>b) active transducers</li> </ul>	
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<ul> <li>Q10) Piezo-electric transducers are :-</li> <li>a) passive transducers</li> <li>b) active transducers</li> </ul>	1
a) passive transducers b) active transducers	
a) passive transducers b) active transducers	
c) inverse transducer d) active and inverse trans	
	ducers
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Q11) A true rms reading voltmeter uses two thermocouple in order	the second second second
<ul><li>a) to increase sensitivity</li><li>b) that a second thermocouple cancels out the no linear effect</li></ul>	of the first
thermo couple	of the mst
c) to prevent drift in the dic. Amplifier	
d) all of the above	
(012) In an electronic elementary en anominicated electronic	
Q12) In an electronic ohmmeter an op-amp is used as a :- a) sommer b) multiplier	
c) buffer amplifier d) integrator	
	2.0
Q13) The primary function of a filter is to : -	
a) minimize input variations	
b) suppress odd harmonics in the rectifier output	
<ul> <li>c) stabalise DC level of o/p voltage</li> <li>d) remove ripples from rectified output</li> </ul>	
a) remove ripples from rectified output	
Q14) Saturation region in an NPN transistor : -	
a) $V_{_{CB}}$ is negative and $V_{_{BE}}$ is positive b) $V_{_{CB}}$ is positive and $V_{_{BE}}$ is	
c) both $V_{CB}$ and $V_{BE}$ are positive d) both $V_{CB}$ and $V_{BE}$ are negative	gative
Q15) To turn a conducting SCR to off state, it is necessary to make :	
a) anode current less than holding current	
b) gate current zero	
c) anode voltage less than break over voltage	
d) gate voltage zero	
Page 3	
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	PPAMIN&C SIII
	Q16) Which semiconductor device acts like a diode and two transistor : -
	a) SCR b) Triac c) UJT d) Diac
	Q17) Transformer coupling is used in class A amplifier to make it :-
	a) more efficient b) less bulky
	c) less costly d) distortion free $2$
	Q18) Which of these is a thick-film resistor :-
	a) wire would resistor b) carbon composition resist
84	c) metal film resistor d) cermet film resistor
Constraints of the second second second	Q19) Which of these is not a photoelectric device?
	a) Photoconductive cells b) Photoemissive cells
	c) Photoresistive cells d) Photovoltaic cells
	Q20) Which of these represent short in a series circuit?
	a) Increase in resistance (b) Increase in current
	c) Increase in voltage d) Increase in conductance
	Q21) Superposition theorem stays valid for a:-
	a) LTI system b) Discrete system
	c) LT systems d) None of these
	Q22) Condition for critical damping of a RLC circuit is:-
	a) $R = \frac{\sqrt{L}}{C}$ b) $R = \frac{L}{C}$ c) $R = \frac{1.5\sqrt{L}}{C}$ d) $R = \frac{2\sqrt{L}}{C}$
	Q23) Active High pass filters consist :-
	a) RC circuits b) Differential amplifiers
	c) Operational amplifiers d) RLC circuits
	Q24) Which amongst the following has a negative coefficient of temperatu
	for resistance?
	a) Copper b) Lead c) Carbon d) Aluminium
,	Q25) Aflasher circuit application is a :-
	a) Safety blinkers for bicycles b) Rides lighting
	c) Street Light Control d) Glow lamp
	Page 4

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	PPAMIN&C.SIII	1
	Q26) The Kirchoff's law for a.c. is applicable upon consideration of :-	
	a) Phasor sum b) Algebraic sum	1
	c) Progression sum d) Linear sum	
مېر	Q27) Methods of earthing not followed in practice are:- a) Pipe or Rod earthing b) Plate conthing	
	b) Trate earthing	
	c) Discearthing d) None of these	7
	Q28) Which of these is not a semiconductor?	
	a) Si b) Germaniun	
	c) Tungsten d) None of these	
	(020) Which of this represent the late of	
	Q29) Which of this represent the half-time constant? a) $0.693 \text{ T}$ b) $0.504 \text{ T}$ c) $0.876 \text{ T}$ d) $0.450 \text{ T}$	
	a) $0.693 T$ b) $0.504 T$ c) $0.876 T$ d) $0.450 T$	
	Q30) When a pure inductor is connected in series with a lamp circu	it effect
	IS-	
	a) Dimmer b) Brighter c) Same d) Fused	
	Q31) A 2200 V 50 Hz AC supply similar that DMG	
	Q31) A 2200 V, 50 Hz AC supply signifies that RMS value of AC waveform is:-	voltage
	a) $2200\sqrt{2V}$ b) $(2200\sqrt{2})$ V	1
	c) 2200 V d) None of the above	
	Q32) A coil has self resistance of 5 ohm ( $\Omega$ ) and $X_{L} = 1000 \Omega$ at a r	esonant
	frequency of 1 MHz. The value of Q is:- a) 200 ohm b) 100 ohm c) 400 ohm d) 300 ohm	
	a) 200 ohm b) 100 ohm c) 400 ohm d) 300 ohn	1
	Q33) The following should be considered while selection a transducer	I
	a Densitivity b) Operating Pango	
	c) Frequency Response d) All the above	
	Q34) An aquadog is used in a 'CRO' to collect :-	
مر لا	<ul><li>a) Secondary emission electrons</li><li>b) Primary emission electrons</li></ul>	
	c) Both Primary and Secondary emission electrons	
]	d) None of the above	
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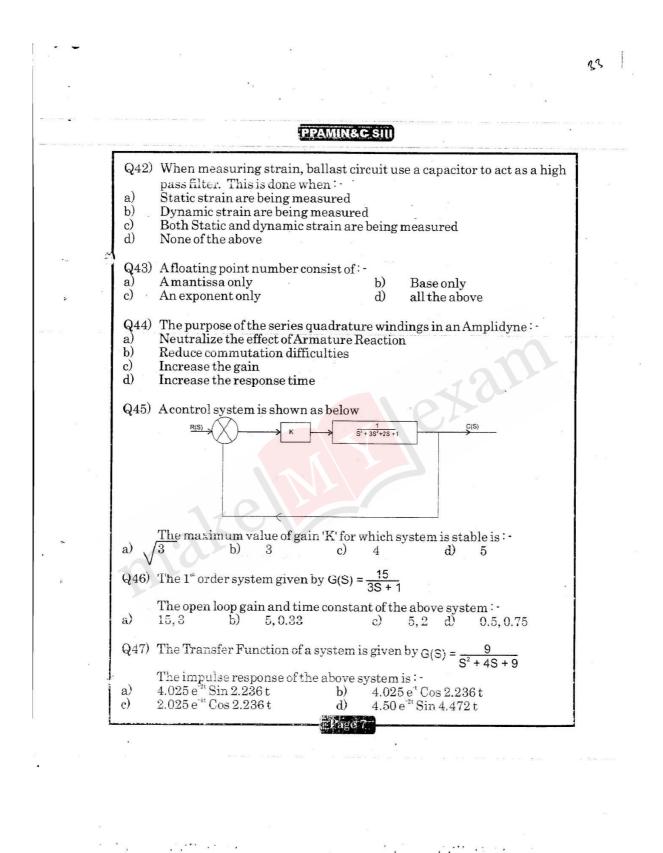
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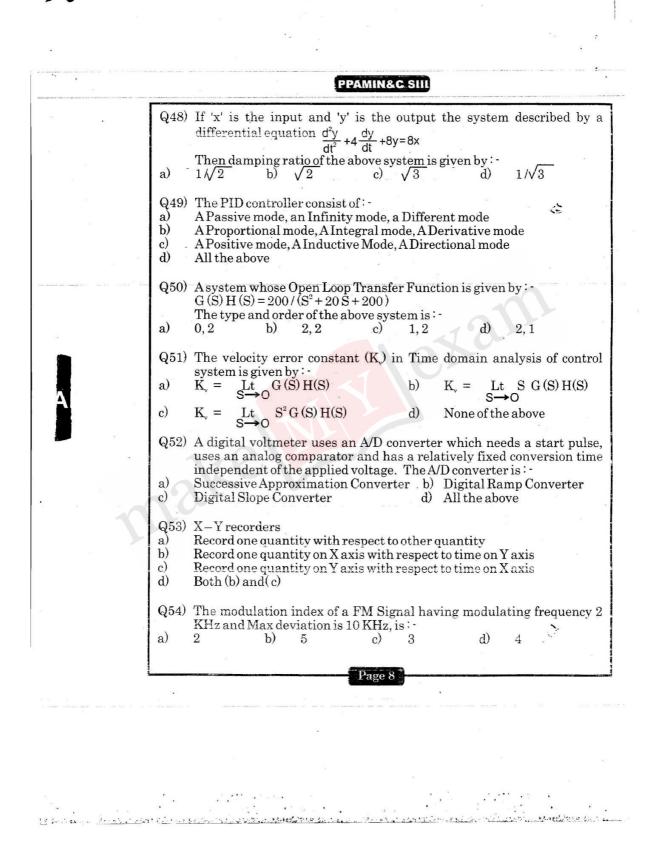
•	() () () () () () () () () () () () () (	
		PPAMIN&C SIII
		Q35) The effective resistance of a coil at high frequency is more than its de
		resistance on account of :-
	×	a)Skin effectb)Proximity effectsc)Eddy current lossesd)All the above
		Q36) The input voltage to an OPAMP is a large voltage step. The sutput is an exponential waveform that changes to 0.25 V in 0.1µs (microsecond). The slew rate of the OPAMP is:-
		a) $5 V/\mu s$ c) $3 V/\mu s$ b) $2.5 V/\mu s$ d) $4.5 V/\mu s$
		<ul> <li>Q37) Data Acquisition system are used to measure and record analog signal in different ways i.e.:-</li> <li>a) Signals which originates from direct measurement of electrical</li> </ul>
		quantities b) Signals which originate from the use of transducer
		<ul> <li>c) Signals which oscillates in simple harmonic motion and dies out slowly.</li> <li>d) Both (a) and (b).</li> </ul>
A		Q38) The sweep width in CRO is controlled by :- a) Horizontal Gain Control
		<ul> <li>b) Vertical Gain Control</li> <li>c) Accelerating – Anode Potential Control</li> <li>d) Focussing Anode Potential Control</li> </ul>
	8	Q39) Sampling theory finds its application in :-
		a) Amplitude Modulation b) Frequency Modulation c) PCM d) Phase Modulation
		Q40) A toothed type Tacho-generator has 60 teeth. A magnetic pickup is used in conjunction with it. The number of pulses generated per second in the magnetic pick up is:-
		a) $3000$ b) $1500$ c) $1800$ d) $1200$
		<ul> <li>Q41) Dummy strain guages are used for:-</li> <li>a) compensation of temperature changes</li> <li>b) increasing the sensitivity of bridge in which they are included</li> </ul>
		<ul> <li>b) increasing the sensitivity of bridge in which they are included</li> <li>compensating for different expansion</li> <li>calibration of strain gauge</li> <li>Page 6</li> </ul>
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	Q55) The closed loop goin of on OPAMP is lower last and the standard
	Q55) The closed loop gain of an OPAMP is dependent upon, whether the OP
	a) in inverting mode
	b) in non-inverting mode
	c) is independent of the fact whether the input is connected to inverting or non-inverting terminal
	d) is depending upon the fact whether the input is connected to inverting
1	or non-inverting terminal
7 .	Q56) Which is not the disadvantage of LVDT?
/	a) Relatively large displacement are required for appreciable differential
	b) temperature affects the performances of transducer
	c) low hysteresis and electrical isolation
	d) the dynamic response is limited mechanically by the mass of the core
	and electrically by the frequency of applied voltage
	Q57) The emf produced in thermo couple circuit is given by :-
	a) $\mathbf{E} = \mathbf{a} (\Delta \theta)^{\circ} + \mathbf{b} (\Delta \theta)^{\circ}$ b) $\mathbf{E} = \mathbf{a} (\Delta \theta) + \mathbf{b} (\Delta \theta)^{\circ}$
	c) $E = a (\Delta \theta) + b (\Delta \theta)^3$ d) $E = a^2 (\Delta \theta) + b^2 (\Delta \theta)^4$ where $\Delta \theta$ = difference in temperature between hot thermo couple
	junction and reference junction of thermo couple in °C. a, b = Constant
	Q58) If the Q factor of a coil which is $(w_{o}L)$ / R is measured by varying
	Irequency.
	<ul> <li>a) The plot between Q and frequency is Linear</li> <li>b) The value of Q initially decreases with increase in frequency and</li> </ul>
	afterwards increases with increase of frequency
	c) The value of Q initially increases with increase in frequency and
1	d) afterwards decreases with the increase of frequency The Q factor remains constant irrespective of the value of frequency
	Q59) Electronic Voltmeters which use rectifiers employ negative feedback. This is done:-
-	a) To increase the overall gain b) To improve stability
	c) To overcome non-linearity of the diodes d) None of the above
	Q60) Maxwell's inductance – capacitance bridge is used for measurement of
i	Inductance of -
	a) Low Q coils c) High Q coils d) Low and medium Q coils
	c) High Q coils d) Low and medium Q coils

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	<u>O EITHIED</u>	-		
10 20	Q61) Sun Temple is situated at :- a) Haridwar	b) d)	Vrindavan Konark	
	c) Kanyakumari	a)	Kollark	
	Q62) The first Railway line in India	was started	in:-	
	a) $1828$	b)	1835	
	c) 1853	d)	1883	
		tof:-		
	Q63) Bhopal disaster was the resul a) Collapsing of a dam	b)	Greatfire	
	<ul><li>a) Collapsing of a dam</li><li>c) Plague epidemic</li></ul>	d)	Leakage of gas	
			1 Cabo CAA	DC
	Q64) Which of the following cou	ntries is no	t a member of the SAA	inc
	countries?	b)	Afghanistan	
	a) Bangladesh	d)	Nepal	
	c) Pakistan			
	Q65) Mallika Sarabhai is associate	d with whic	h of the following fields : •	
	a) Social Service	D)	Classical music	
	c) Classical Dance	d)	Sports	
	A A A A A A A A A A A A A A A A A A A	w.ofIndia"?	*	
		LY OF India .	Dr. Rajendra Prasad	
	Q66) Who wrote the book "Discove	D)		
	a) Mahatma Gandhi	D)	R.K. Narayan	
	a) Mahatma Gandhi c) Jawaharlal Nehru	d)		
	a) Mahatma Gandhi c) Jawaharlal Nehru	d)	located at:	
	a) Mahatma Gandhi c) Jawaharlal Nehru Q67) India's first satellite launchi	b) d) ng station is b)	located at : - Ahmedabad	
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	<ul> <li>a) Mahatma Gandhi</li> <li>c) Jawaharlal Nehru</li> <li>Q67) India's first satellite launchi</li> <li>a) Chennai</li> <li>c) Thumba</li> </ul>	b) d) ng station is b) d)	located at : - Ahmedabad Sriharikota	?
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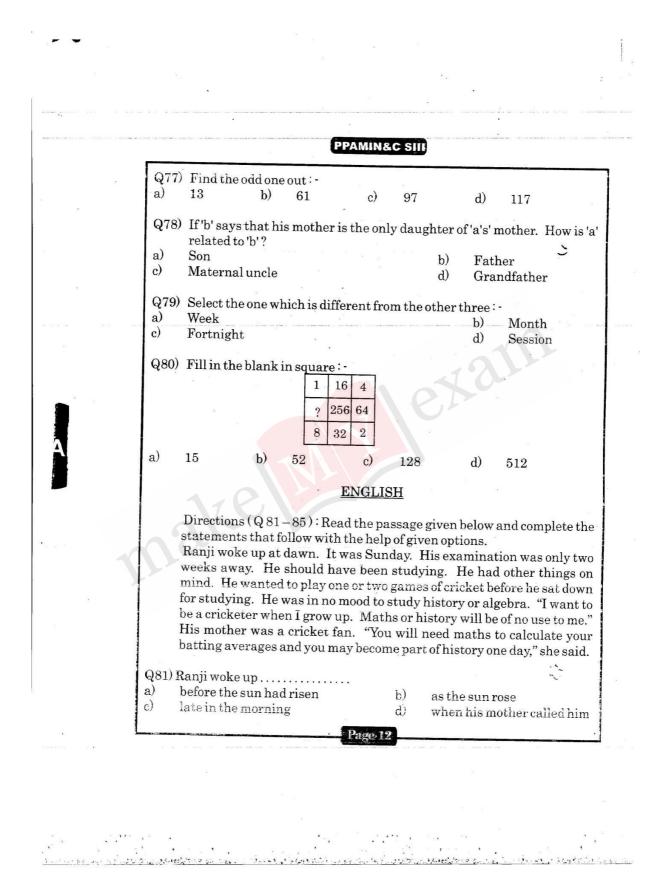
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