GOVERNMENT OF INDIA MINISTRY OF COMMUNICATION & IT DEPTT OF TELECOM

ASOC GRADE- RESTRICTED / GENERAL - PART I

Max marks - 100 (50)

Warning: Donot write anything on question paper.

Write your choice on answer sheet provided. SAMPLE PRACTICE PAPER – Aug 2013

SECTION –A (Radio theory & Practice)

 Referring to Ohm's 	s Law Current flowing in a conduct	or is	
(a) Inversely proportional to voltage (b) Directly proportional to voltage (c) Infinite (d) Directly proportional to resistance			
2. The Unit of capacitance is			
(a) Henry	(b) Ohm	(c) Farad	(d) Jules
3. If the inductors L1, L2 & L3 are in parallel, the resultant inductance would be :			
(a) 1/L1+L2+L3	(b) L1/L2+L2/L3	(c) 1/L1+1/L2+1/L3	(d) L1+L2+L3
4. Which one is a Pa			,
(a) Modulator	(b) Transistor	(c) Resistor	(d) Diode
	Transformers are based?		
(a) Mutual Induction	(b) Ionization	(c) Self Induction	(d) Resonance
	r materials are basically :		T
(a) Three types	(b) Ten types	(c) Two types	(d) Four types
	Voltmeter reads 65 V on a sinusc		
(a) 84	(b) 48	(c) 182	(d) 128
	off's Law Current flowing through a		
(a) Infinite			ubtraction of Input and Out put
	is completely removed from the a		I A D. Jacobson J.
(a) Neutral	(b) Excited	(c) Ionized	(d) destroyed
	ved at the Radio after reflection fr		
(a) Ground wave	(b) surface wave	(c) space wave	(d) Sky wave
11. N type semiconduc	(b) More electrons than holes	(a) No alcotropo et all	
(a) More holes than electrons		(c) No electrons at all	(d) No holes at all
12. The emitter follower (a) Emitter	er is an amplifier having common : (b) Base	(c) None	(d) collector
	r amplification takes place for :	(C) None	(u) collector
(a) < half cycle	(b) > half cycle	(c) Half cycle	(d) Full cycle
		(c) Hall Cycle	(u) i uii cycle
14. The common amplifier used to obtain : (a) Decrease voltage, current & Power (b) Increase voltage, current & power (c) decrease frequency (d) Increase frequency			
15. In R C phase shift oscillation the frequency of oscillation is:			
(a) $f = \frac{1}{2}\pi \sqrt{RC}$	(b) f = ½ π RC	(c) f = 1/RC	(d) f = Rc/2 π
16. Modulation is the p		(0) 1 11110	(4): 1(3)2 11
(a) Higher carrier frequency by the signal to be transmitted (b) Power of the signal (c) RX Frequency (d) TX frequency			
17. What is the modulation index in FM?			
(a) 75/deviation in kHz	(b) 75 x frequency	(c) 7500/deviation in MHz	(d) 100/frequency
	ng of IF in a radio receiver?	(-)	1 (1)
(a) Internal frequency	(b) modulating frquency	(c) Intermediate frequency	(d) ionization frequency
	luces an accurate reproduction of		
(a) fidelity	(b) sensitivity	(c) Selectivity	(d) productivity
20. The wave length o	f 144 Mhz is	<u> </u>	
(a) 3 mtr	(b) 144 mtr	(c) 1 mtr	(d) 2 mtr
21. What is the resonant fre	equency of series RLC circuit if R is	s 22 ohms, L is 50 microhenrys a	nd C is 40 picofarads
(a) 44.72 MHz	(b) 22.36 MHz	(c) 3.56 MHz	(d) 1.78 MHz
		, ,	
22. What do you understand by IF in a Radio receiver ?			
(a) Internal frequency	(b) ionization frequency	(c) modulating frequency	(d) Intermediate frequency
	n Fm is related to signal frequency	Fs & intermediate frequency Fi	
(a) Fm =Fs + Fi	(b) Fm = Fs +2Fi	(c) Fs/Fi	(d) Fm = 2Fs + Fi
24. When the sky wave is r	eceived at receiver the resultant		
(a) Ionization	(b) polarization	(c) fading	(d) distortion
	gation is mainly associated with:		
(a) VHF/UHF	(b) VHF	(c) HF	(d) MF