Restricted grade candidate question carries <u>Two</u> man <u>One</u> hour.	rks) from each section	and the time allotted t	for it	is
<ol> <li>General grade candidates carries <u>One</u> mark) from ea</li> </ol>	have to answer all the ach section and the time	50 questions (each que allotted for it is <u>Two</u> h	uestic lours	on
(Rad	SECTION-A io Theory and Practice)			
<ol> <li>The e. m. f of a cell dependance of electrodes and b) size of electrodes</li> <li>c) spacing between the electrodes</li> <li>d) none of the above</li> </ol>	ds up on d electrolyte		]	1
Transistor in CB – mode ch     a) Gas diode     c) Ideal current source	naracteristics are very b) Ideal voltage sou d) Crystal diode	close to rce e) None	]	1
<ol> <li>An inductor and a capacitor frequency the resulting imp</li> </ol>	r are connected in para pedance is :	llel. At the resonant	[	1
a) Maximum b) minimum	c) totally reactive	d) totally inductive e) None		
4. In FM the carrier deviation is a) modulating voltage b) n d) None e) N	s determined by nodulating frequency None	c) both a & b	]	]
The frequency 146 MHz ca     a) Tropospheric propagation	b) lonospheri	Coronagation	]	]
c) Ground wave propagation e) None	d) Space way	e propagation		4
e) None  6. An antenna is synonymous	to a sformer	e propagation	]	1
e) None  6. An antenna is synonymous a) generator b) tran	to a sformer ector e) None n a receiver the modu b)increases	e propagation	]	1

Note:

9. Which of the mowing contributes to harmonic distortion in amplifiers a) positive feed back b) presence of noise c) defective active devise d) non linearity in active devise e) None of the above	[ ]
10. The attenuator in a signal generator is used to a) provide a external shunt across the output terminals b) vary the output impedence of the oscillator c) Increase the frequency of the output voltage d)vary the output voltage amplitude in steps e) none	[ ]
11. An inductor opposes  a) an increase in applied voltage b) an increase in current flow c) decrease in current flow d) both b & c e) none	[]
High Frequency long-distance propagation is most dependent on:     a) lonospheric reflection	[ ]
<ul> <li>13. In a full wave rectifier the current in each of the diode flows for a) the complete cycle of the input signal b) half cycle of the input signal c) less than half cycle of the input signal d) zero time e) none</li> </ul>	[ ]
14. The basic reason for low efficiency of a direct coupled class- A amplifie  a) its large load resistor b) centered location of its Q point c) its high dc supply voltage d) its low ac o/p power e) none	ris []
<ul> <li>15. An RF transmission line should be matched at the transmitter end to:</li> <li>a) Prevent frequency drift</li> <li>b) Overcome fading of the transmitted signal</li> <li>c) Ensure that the radiated signal has the intended polarization</li> <li>d) Transfer maximum power to the antenna</li> <li>e) None</li> </ul>	[ ]
16. The image frequency of a signal 1500 khz in a superheterodyne rece a) 2410KHz b) 2950KHz c) 3500KHz d) 4405KHz e) none	iver is

## SEC-B

5	. The message " F	AN PAN VU2HYD DE	VU2MON" is of type		*
	a) Urgency signa	b) Distress	s signal	E.	1
	c) Safety signal		f the above		
6.	The frequency of	bandwidth of an emiss	ion "100HA1A" io		-
	a) 100 KHz	b) 0.1 KHz	NOT TOUTHATA IS	1	1
	c) 10 KHz	d) 1 KHz			
	e) None	77 13012			
7.	If you hear distre	ss traffic and are unable	e to render assistance,		
	you should		o to render desistance,	r	31
	a) Maintain watch	until you are certain th	nat assistance is forthcomin	0	1
	b) Enter the detail	s in the log book and t	ake no further action	9	
	c) Take no action		- The familiar doubli		
	d) Tell all other st	ations to cease transm	itting		
	e) None				
8.	An emission that analog signal use	represents a signal whi s Amplitude Modulated	ich contains a single chann I telegraphy for aural recept	el with	
		modulating sub-carrie		1	1
	a) A1A	b) A2A		*	-
	c) H1A	d) R1A			
	e) None				
9.	The phonetic used	I for the digit '7' is		ī	1
	a) Sekteseven	b) Soxiseven			
	c) Seven	d) Setteseven			
	e) None				
10.	Emissions shall be	designated according	to their	-7	1
		d radiating direction	10000	4	1
		width and Classification	on.		
		width and Power outp			
			ut.		
	d) Power output ar	o Glassification			
-	e) None				
11.7	he radiation in an	reception from unne	cessary directions can be		
1	Minimized by using			]	]
	) appropriate class	of emission			
	) better selectivity				
	) directional anten				
		or Transmitting and Re	eceiving stations		
е	) None				

12. Authority to make "Radio communication Regulations" is derived from	[ ]
a) The Radio communication Act	
b) The General Radio Regulations	
c) The Standards for the Operation of Radio Stations	
in the Amateur Radio Service	
d) The ITU Radio Regulations	
e) None	
13. Which of the following statements is NOT correct?	[ ]
a) No person shall decode an encrypted subscription	
programming signal without permission of the lawful distributor	
b) No person shall, without lawful excuse, interfere with or obstruct	
any radio communication	
c) A person may decode an encrypted subscription programming	
signal, and retransmit it to the public d) No person shall send, transmit, or cause to be transmitted, any	
false or fraudulent distress signal	
e) None	
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A section must be cont	[ ]
14. The call sign of an amateur station must be sent	* **
a) every minute	
b) every 15 minutes	
c) at the beginning and end of each exchange of communications,	
and at least every 30 minutes, while in communications	
d) once after initial contact	
e) None	
15. The letters those are required to be sent in the time of Distress	
in Voice transmission are	[ ]
a) SOS b) MAY DAY c) PAN PAN d) SECURTIE	
e) None	
16. To make your call sign better understood when using voice transmiss	sions,
what should you do	[ ]
a) Use any words which start with the same letters as your call sign	
for each letter of your call	
b) Talk louder	
c) Turn up your microphone gain	
d) Use Standard International Phonetics for each letter of your call s	ign
e) None	