	1. The second of
01) Ch	pose the correct option from the following questions. Each question carries equal marks.
	4-1
1) The	ratio of maximum power density in the desired direction to the average power radiated from
the ant	enna is called as
(ne and	Directivity
	Directive gain
	Power gain
	Partial directivity
D	
-> 16 Ab	e length of the dipole decreases then the radiation resistance will
	Increase
	Decrease A State of the State o
В	Depends on current distribution
С	
D	Not change
	harges +Q and -Q are existing in some medium then the electric field intensity will terminate
3) If ch	harges +Q and -Q are existing in some intending the object of the control of the
at	
	At origin
	At +Q
	At-Q
D	At infinity
	integration
4) Usi	ng Stoke's theorem we convertIntegration intoIntegration
Α	Line, surface
В	
C	Single, triple
D	Volume, line
5) V2	V =is the Laplace's equation
Δ,	
D	$z_{o}$
· · · · · ·	
ſ	[설명] [설명 : [설명 : 1]
6) 116	ing boundary conditions, one can calculate component.
6) 05	Tangential and normal
	Only tangential
	Only normal
	Sequential and Tangential
	the distance between the transmitting and receiving antenna is decreased by factor 2 while
7) If	the distance between the transmitting and received by the antenna
facto	rs remain same, then the new power received by the antenna
A	A Increases by factor 2
	(124)
	VI / TE   EXTC   R.19   EA   18.05-22 (136)
>CM	The contract of the contract o
1 4	

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	by factor 2			de 1	
B D	ecreases by factor 2 creases by factor 4				
D D	ecreases by factor 4				
8) Which	h of the following is tru	ue for circular pola	rization?		
Α	$E_x = E_y$ and $\varphi =$	2			
	$E_x = E_y$ and $\varphi =$	_	, o		
В	$E_x \neq E_y$ and $\varphi = \frac{1}{2}$		200		
C	$E_x \neq E_y$ and $\varphi = \frac{1}{2}$		3 7		
D	$E_x \neq E_y una \psi -$				
9) Gauss	s's law for the electric	field is given by			
Α	$\nabla . D = 0$				
В	$\nabla x D = \rho_v$				
C	$\nabla x D = 0$				
D	$\nabla . D = \rho_v$	65.2.2			
			the driv	en element ic	
	agi Uda, the length of t	he director compa	itea to the oliv	Enteredient in	
	maller		200		
	dependent to each off	nerallaga			
D De	epends on the type dri	ven element			
Q2) Solv	ve any two			(20)	
2a)Defir	ne maximum usable fr		listance_Derive	maximum usab	le frequency in ten
of skip o	distance and virtual he	ight.		, c	
2b) Wri reflecto	te short note on pa r array	rabolic reflector a	intenna. Descr	ibe feeding tec	hniques of parabo
	e and explain Coulon LP1(-3,7,-4) while Q2 =				
Q3) Solv	e any two				
			(20)		
	ive array factor of N-c the expression for th				
	uss elettic field and navant mathematical ec		undary condition	ons at the interf	face of two medium
3c) Des transmit	cribe the space wave	e propagation and enna. Earth is assu	d derive relati med to be flat.	on for maximu	m distance betwee
Q4) Solv	e any two.			(20 marks)	
			21.8/21.34		

