BE / EXTC / SEM- VIII_ CHOICE BASED /

Examinations Summer 2022

RF DESIGN

Time: 2 hour 30 minutes

Max. Marks: 80

92111

Q1.	Choose the correct option for following questions. All the Questions are compulsory and
1	carry equal marks [20]
Option A	In RF receiver application the preamplifier has
Option B	Maximum gain amplifier
• Option C	Low noise amplifier
Option D	Specific gain amplifier
Option D	Class A power amplifier
2	To design a maximally flat low pass filter with fc= 2 GHz, impedance of 50 Ω and atleast 15 dB IL at 3 GHz the order N is
Option A	2
Option B	3
Option C	5
Option D	6
3*	
	is a technique a technique that reduces or prevents coupling of undesired radiated electromagnetic energy into equipment to enable it to operator compatibility in its electromagnetic environment.
Option A	Filtering
Option B	Grounding
Option C	Shielding
Option D	Bonding
4	Direct digital frequency synthesis is obtained by solving digital recursion relationship using a general purpose computer or
Option A	Direct frequency synthesis
Option B	A PLL-DDFS combination
Option C	Multiple loop indirect synthesis
Option D	Sorting sine waves in look up table
5	Inductor is replaced with and capacitor is replaced with of \(\lambda \)8 line in Richard's transformation.
Option A	Short stub and open stub
Option B	Shunt capacitor and series indctor
Option C	Shunt inductor and series capacitor
Option D	Series Capacitor and series inductor
6	How instability can be created in oscillator design?
Option A	Using capacitor in feedback
Option B	Using positive feedback
Option C	Using negative feedback
Option D	Using feed forward feedback
2	completed for ward receivack
· - -	is not a EMC standard,
	CJNU FM
-	CISPR

8 Option A Option B Option C	MIL- STD 461 D VDE The maximum unilateral gain is a function of Source reflection coefficient S parameters of transistors Load reflection coefficient Source and load reflection coefficients
Option A Option B	The maximum unilateral gain is a function of Source reflection coefficient S parameters of transistors Load reflection coefficient
Option A Option B	Source reflection coefficient S parameters of transistors Load reflection coefficient
Option B	Source reflection coefficient S parameters of transistors Load reflection coefficient
	Load reflection coefficient
Option C	Load reflection coefficient
	Source and load reflection coefficients
Option D	
9	Select one which is not a method of frequency synthesis,
Option A	Frequency synthesis by modulus divider
Option B	Direct frequency synthesis
Option C	Compressed frequency synthesis
Option D	Frequency synthesis by PLL
10	
10	Is it possible to use normal smith chart for reading input impedance for reflection coefficient greater than one
Option A	Only possible for certain values of reflection coefficient
Option B	Possible
Option C	Not possible
Option D	Possible if magnitude of reflection coefficient is less than 5

Q.2		*		
A	Solve any two		and the second	5 marks each
	Draw one port oscillator circ	uit.Find value of RI	which maximizes o	scillator power
i	Draw two port amplifier .De	fine various gains w	ith equations.	
iii	Describe single balanced mix	cer using 90 0 hybrid	d coupler with neat	diagram.
В	Solve any one		,	10 marks each
L	A GaAs FET has the following Ω system			
	$S_{11} = 0.6 \angle -60^{0}$, $S_{12} = 0.05 \angle -20 \Omega$ and Γ opt $=0.62 \angle 100^{0}$	$S_{21} = 1.92.8$	1 , 322 -0.32 -00	,rmin=1.6dB, Rn=
	$S_{11} = 0.6 \times 2-60^{\circ}$, $S_{12} = 0.05 \times 2-20^{\circ}$ and Γ opt $=0.62 \times 100^{\circ}$ Assuming the FET to be unill noise figure not more than 2d	o ateral .design an am		

Q3		
A	Solve any two	5 marks each
i	Compare design difference in amplifier and oscillator.	- W
ii	Explain the characteristics of power amplifier,	F. 7338 F. 7
iii .	Explain the terms insertion loss, shape factor, quality factor	r ,rejection in filter.
В	Solve any one	10 marks each
· i	Design a two port transistor oscillator at 6 GHz using FET configuration driving 50 Ω load ondrain sideS ₁₁ = 0.9 \angle -150 S ₂₁ =2.6 \angle 50 ⁰ , S ₂₂ =0.5 \angle -105 ⁰ . Calculate and plot stabil Γ in>> 1. Design load terminating network	$S_{12} = 0.2 \times -15^0$
ii	An N= 3 Chybyshev bandpass filter is to be designed with a communication link The centre frequency is at 2.4 GHz and requirement of 20%. The filter has to be inserted into 50 Ω c	d filter has to meet bandwidth

Q4		
A	Solve any two	5 marks each
i	What are the sources of EMI and effects of EMI,	
ii•	Explain differential FET mixer with diagram.	
iii	Write a note on safety grounding.	
В	Solve any one	10 marks each
i	S parameters of properly biased HFET-1101 measu GHz $S_{11} = 0.6 \ 14 \angle -167.4^{\circ}$, $S_{12} = 0.046 \ \angle 65^{\circ}$, $S_{21} = 2.18$ Design an amplifier using this for maximum possible	ared using 50 Ω network analyzer at 6 $3 \angle 32.4^{\circ}$, $S_{22} = 0.716 \angle -83^{\circ}$
ii	A one port oscillator uses a negative resistance diod desired operating point for f= 6GHz. Design load m	le having Γ in =1.25 \angle 40 Zo=50 Ω at its

Datasheet

TABLE 8.3 Element Values for Maximally Flat Law-Pass Filter Protutypes ($g_0=1$, $\omega_c=1, N=1$ to 10)

N	R1	22	83	84	85	86	87	28	g9	210	gu
1	2.0000	1.0000				***************************************	***************************************			WORLD TO SERVE THE	. Mr. vermendelse
2	1.4142	1.4142	1,0000								
3	1.0000	2,0000	1.0000	0.0000							
4	0.7654	1.8478	1.8478	0.7654	1.0000						
5	0.6180	1.6180	2.0000	1.6180	0.6180	1.0000					
6	0.5176	1.4142	1,9318	1.9318	1,4142	0.5176	1.0000				
7	0.4450	1.2470	1.8019	2.0000	1.8019	1.2470	0.4450	1.0000			
8	0.3902	1,1111	1.6629	1 9615	1.9615	1.6629	1.1111	0.3902	1,0000		
9	0.3473	1,0000	1.5321	1.8794	2.0000	1,8794	1.5321	1.0000	0.3473	0000.1	
1)	0.3129	0.9080	1.4142	1.7820	1.9754	1.9754	1.7820	1,4142	0.9080	0.3129	1,000

Source: Reprinted from G. L. Matthaei, L. Young, and E. M. T. Jones, Microwave Filters, Impedance-Matching Networks, and Coupling Structures, Artech House, Dedham, Mass., 1980, with permission

TABLE 8.4 Element Values for Equal-Nipnie Low-Pass Filter Prototypes ($g_0 = 1$, $\omega_c = 1$, $\omega_c = 1$, $\omega_c = 1$, $\omega_c = 1$), $\omega_c = 1$, ω_c

					9.5 di	a Rippie					
N	81	81	23	84	85	gs.	g+	28	89	210	811
1	0.5986	1.0000									
2	1.4029	0.2971	1.9841								
1	1 4061	1.0967	1 5963	1.6900						- 3	k
4	1,6703	1.1926	2,3661	0.8419	1,9841						10
4	1.7058	1.2296	2,5408	1,2296	1,7058	1.0000					
6	1.7254	1,2479	2.6064	1.3137	2,4758	0.8696	1.9841				
7	1 7372	1.2583	2.6381	1.3444	2.6381	1 2583	1.7372	1,0000			
8	1.7451	1.2647	2.6564	1,3590	2,6964	1.3389	2.5097	0.8796	1 9841		
12	1.7564	2690	2,6678	1.3673	2,7239	1.3673	2,6678	1.2690	1.7504	E.Oričo	
U	1.3543	1.2721	2.6754	1.3725	2 7392	1.3806	2.7231	1 3485	2.5239	0.8842	1 984

953 L0 913 O.:	#2 0000 5110	83	g 4	25	86	87	88	29		
013 0.5			-					0.7	810	511
	6110					MANAGEMENT.		******************	TOTAL STREET	
	Section 1	5.8095								
187 0.	7117	3.3487	1,0000							
89 0.	7483	4,3471	0.5920	5.8095						
17 0	7618	4.5381	0.7618	3.4817	1,0000					
145 0	7685	4,6061	0.7929	4.4641	0.6033	5 8095				
82 0.7	7723	4,6386	0.8039	4,6386	0.7723	3.5182	1,0000			
277 0.2	7745	4 6575	0.8089	4.6990	0.8018	4.4990	0.6073	5,8095		
340 0.7	7760	4 6692	0.8118	4.7272	08118	4,6692	0.7760	3.5340	1 0000	
84 0	7771	4.6768	0.8136	4.7425	0.8164	4,7260	0.8051	4,5142	0.6091	5.8095
1	17 0 45 0 82 0 5 77 0 5 40 0 5 84 0 5	17 0 7618 45 0 7685 82 0.7723 77 0.7745 40 0.7760 84 0 7771	17 0 7618 4.5381 45 0 7685 4.6061 82 0.7723 4.6386 77 0.7745 4.6575 40 0.7760 4.6692 84 0 7771 4.6768	17 0 7618 4.5381 0.7618 45 0 7685 4.6061 0.7929 82 0.7723 4.6386 0.8039 77 0.7745 4.6575 0.8089 40 0.7760 4.6092 0.8118 84 0.7771 4.6768 0.8136	17 0 7618 4.5381 0.7618 3.4817 45 0 7685 4.6061 0.7929 4.4641 82 0.7723 4.6386 0.8039 4.6386 77 0.7745 4.6575 0.8689 4.6990 40 0.7760 4.6692 0.8118 4.7272 84 0.7771 4.6768 0.8136 4.7425	17 0 7618 4.5381 0 7618 3 4817 1,0000 45 0 7685 4.6061 0 7929 4.4641 0.6033 82 0.7723 4.6386 0.8039 4.6386 0.7723 77 0.7745 4 6575 0.8089 4.6990 0.8018 40 0.7760 4 6692 0.8118 4.7272 0.8118 84 0 7771 4 6768 0.8136 4.7425 0.8164	17 0 7618 4,5381 0 7618 3 4817 1,0000 45 0 7685 4,6061 0 7929 4,4641 0,6033 5 8095 82 0.7723 4,6386 0.8039 4,6386 0,723 3,5182 77 0.7745 4,6575 0.8089 4,6990 0.8018 4,4990 40 0,7760 4,6692 0.8118 4,7272 0.8118 4,6692 84 0 7771 4,6768 0.8136 4,7425 0.8164 4,7260	17 0 7618 4,5381 0.7618 3.4817 1.0000 45 0 7685 4,6061 0.7929 4.4641 0.6033 5.8095 82 0.7723 4,6386 0.8039 4,6386 0.7223 3,5182 1.0000 77 0.7745 4 6575 0.8089 4.6990 0.8018 4.4990 0.6073 40 0.7760 4.6692 0.8118 4.7272 0.8118 4.6692 0.7760 84 0 7771 4.6768 0.8136 4.7425 0.8164 4.7266 0.8051	17 0 7618 4,5381 0.7618 3.4817 1.0000 45 0 7685 4,6061 0.7929 4.4641 0.6033 5.8095 82 0.7723 4,6386 0.8039 4,6386 0.7723 3,5182 1.0000 77 0.7745 4 6575 0.8089 4.6990 0.8018 4.4990 0.6073 5.8095 40 0.7760 4.6692 0.8118 4.7272 0.8118 4.6692 0.7760 3,5340 84 0 7771 4.6768 0.8136 4.7425 0.8164 4.7266 0.8051 4,5142	17 0 7618 4,5381 0.7618 3,4817 1,0000 45 0 7685 4,6061 0.7929 4,4641 0.0033 5,8095 82 0.7723 4,6386 0.8039 4,6386 0.7223 3,5182 1,0000 77 0.7745 4,6575 0.8089 4,6990 0.8018 4,4990 0.6073 5,8095 40 0.7760 4,6692 0.8118 4,7272 0,8118 4,6692 0,7760 3,5340 1,0000

BE / EXTC / Sem. VIII / Choice Based / Wireless Networks

Examinations Summer 2022

Time: 2hour 30 minutes Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	In wireless ad-hoc network
Option A:	Access point is not required
Option B:	Access point is must
Option C:	Nodes are not required
Option D:	All nodes are access points
	and the decision points
2.	According to the specifications, how many Bluetooth devices can actively participate in a small network, called piconet?
Option A:	12
Option B:	9
Option C:	6
Option D:	8
3.	hich scheme implies the integer multiples of the first subcarrier, which are orthogonal to each other?
Option A:	OFDM
Option B:	BPSK
Option C:	QPSK
Option D:	QAM
4.	A scatternet is a collection of
Option A:	One master and slave
Option B:	Only master
Option C:	Piconets
Option D:	Only slaves
5.	Which mode enables peer-to-peer transmission between mobile units
Option A:	Mobile Adhoe Network mode
Option B:	LAN mode
Option C:	Infrastructure mode
Option D:	Adhoc mode
6.	Which transmission media provides the highest transmission speed in a network?
Option A:	Co-axial cable
Option B:	Twisted pair cable
Option C:	Optical cable
Option D:	Ethernet cable (CAT)
Ay	
7.	The full form of SPIN is
Option A:	Sensor Protocol for Information via Negotiation
Option B:	
Option B:	Secrete Protocol for Information via Negotiation

0.1.0	Tapes coat 39
Option C:	Simple Protocol for Information via Negotiations
Option D:	Sensor point for Information via Negotiations
8.	Each device in a MANET isto move independently in any direction and will therefore change its links to other devices frequently
Option A:	Restricted
Option B:	Free
Option C:	Bonded
Option D:	Need permission
9.	WiMAX uses licensed and unlicensed spectrum to deliver a.
Option A:	Point-to-point connection
Option B:	Point-to-multipoint connection
Option C:	Both P2P and P2MP
Option D:	None of these
10.	A true MANET requires routing
Option A:	Multicast
Option B:	Unicast
Option C:	Broadcast
Option D:	Scattered

Q2	
A	Solve any Two
	5 marks each
i.	Define link types in Bluetooth
ii.	Explain Various WPAN sub standards in terms range, speed and IEEE Standards.
iii.	Describe the VANET network architecture.
В	Solve any One 10 marks each
i,	Explain SPIN and LEACH Protocols of wireless sensor networks in details.
ii.	Describe IEEE 802.11 equipment. Why is it preferable to use smaller packets in a WLAN environment?

Q3	
A	Solve any Two
:	5 marks each
1.	Explain the Routing protocols in Wireless Mesh Network
11,	Explain in detail the three phases in Wireless Network planning process.
iii.	Explain with examples centralized and distributed schemes in localization of WSN nodes.
В	Solve any One 10 marks each
1.	Explain various Bluetooth connection establishment states. Draw a complete flow diagram.
ii.	Consider a Bluetooth piconet where a slave in piconet 1 is sending a packet to the masterwith DM3 packet format. What is the supported maximum rate of the user from slave to master direction? (DM3 packets are the same as that of DM1 except that they can cover up to threetime slots and can carry up to 123 infobytes and Atime slot period in Bluetooth is 625 MicroSeconds.)

Q4		
A	Solve any Two	
	Write short note on5 marks each	
i.	M2M communication	
ii.	VANET	
iii. ·	MANET	
В	Solve any One	10 marks each
i.	Explain Wireless Mesh Network and its applications	
ii.	Explain Link(Uplink and Downlink) Budget for GSM.	

BE/EXTC/Sem-VIII/Choice Based University of Mumbai

Examinations Summer 2022 Paper Code: 93815
ECCDLO 8044: Network Management in Telecommunication

Time: 2 hour 30 minutes

Max. Marks: 80

Q1. (20 Marks)	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks.	
1.	The Web- Based Enterprise Management (WBEM) standard is developed b whom?	
Option A:	DMTF (Desktop Management Task Force)	
Option B:	ITU-T (International Telecommunication Union – Telecommunications)	
Option C:	OSI (Open System Interconnection)	
Option D:	IETF (Internet Engineering Task Force)	
2.	What is FCAPS?	
Option A:	Fault Management, Configuration Management, Accounting Management Provisioning Management, System Management	
Option B:	Filter Management, Console Management, Audit Management, Plagiarism Management, System Management	
Option C:	Fault Management, Console Management, Audit Management, Provisioning Management, Security Management	
Option D:	Fault Management, Configuration Management, Accounting Management, Provisioning Management, Security Management	
3.	Two types of ATM switches are	
Option A:	VPI and VCI	
Option B:	VP and VPC	
Option C:	PVC and SVC	
Option D:	PVC and SUV	
4.	Which of the transport protocol is used for communication over management process of SNMP?	
Option A:	TCP	
Option B:	UDP	
Option C:	CMIP	
Option D:	FTP	

5.	The TMN information model has been used in specific technology such		
Option A:	ATM and SDH/ SONET		
Option B:	OSI and Mobile		
Option C:	SNMP and broadband network		
Option D:	IEEE and Satellite		
6.	The management system correlates all these events and isolates the root cause of the problem. The technique is called		
Option A:	event correlation technique		
Option B:	detecting and filtering of event		
Option C:	model-based reasoning		
Option D:	receiving an event		
7.	Based on predefined policy of network management, controlling access to the network is the task of		
Option A:	Fault management		
Option B:	Performance management		
Option C:	Active management		
Option D:	Security management		
8.	Service level agreement is between user &		
Option A:	service provider		
Option B:	IT manager		
Option C:	Institute owner		
Option D:	Employee		
9.	For SNMP, defines the general rules for naming objects, defining object types, and showing how to encode objects and values.		
Option A:	SMI		
Option B:	MIB		
Option C:	BER		
Option D:	IB.		
-	a sty		

		Paper Code: 93815
Option A:	32 bytes	10710 0001 33815
Option B:	48 bytes	
Option C:	64 bytes	
Option D:	128 bytes	

Q2 (20 Marks)	Solve any Two Questions out of Three 10 Marks each	
A	Explain different perspective of Network Management.	
В	With respect to OSI Network Management describe terms as ACSE, ROSE, Scoping and Filtering Linked Replies, CMIS/ CMIP, GDMO	
You are administering the 24000 workstations in an organizar pinging each station periodically. The message size in both dimbytes long. The NMS you are using is on a 10Mbps LAN, where with 30% efficiency. What would be the frequency of your pin were not to exceed 5% overhead?		

Q3 (20 Marks)	Solve any Two Questions out of Three 10 Marks each	
A	Describe two-tier and three-tire network management organization model.	
В	Sketch and explain the TMN functional architecture.	
С	Describe Broadband Network Management?	

Q4.	Solve any Four out of Six	5 marks each
A	Explain about the network mana	gement architecture and organization.
В	Illustrate the management inform	
. C	Construct the Internet MIB II grou	up.
D	Differentiate RMON and SNMP	
E	Interpret the features of codeboo	k correlation model with other models.
F	What are the challenges/Perspec	

BE/EXTC/Sem-VIII/ Choice Based/Satellite Communication University of Mumbai

Examinations Summer 2022 Paper Code: 93941

Time: 2 hour 30 minutes

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	Kepler's second law is known as	
Option A:	The Law of Orbits	
Option B:	The Law of Areas	
Option C:	The Law of Periods	
Option D:	The Law of Gravity	
2.	The quality of space link is measured in terms ofratio.	
Option A:	C/N	
Option B:	S/N	
Option C:	G/T	
Option D:	EIRP	
3.	What is meant by EIRP?	
Option A:	Equivalent Isotropic Radiated Power	
Option B:	Energy Isotropic Radiated Power	
Option C:	Equivalent Isotropic Resonance Power	
Option D:	Equivalent Intermodulated Radiated Power	
4.	The distance of a Geo synchronous satellite from Earth's surface iskm.	
Option A:	300	
Option B:	10000	
Option C:	35900	
Option D:	5	
-		
5.	The satellite subsystem that monitors and controls the satellite is the	
Option A:	propulsion subsystem	
Option B:	power subsystem	
Option C:	communications subsystem	
Option D:	telemetry, tracking, and command subsystem	
6.	At the beginning of each burst, certain time slots are used to carry timing & synchronizatio information, these time slots are collectively known as	
Option A:	Preamble	
Option B:	Guard time	
Option C:	Frame efficiency	
Option D:	Decoding quenching	
7.	The point where the orbit crosses the equatorial plane going from north to south is called	
Option A:	Ascending node	
Option B:	Descending node	
Option C:	Line of nodes	
Option D:	Line of apsides	
8.	To make antenna more directional, either its size must be increased or	
Option A:	the number of its feed horns must be increased	
Option B:	the frequency of its transmission must be increased	

Option C:	its effective isotropic radiated power (EIRP) must be increased	
Option D:	its footprint must be increased	
9.	DAMA stands for	
Option A:	Data accessibility master aerial	
Option B:	3: Digital attenuators microwave antenna	
Option C:	Dual accessibility mode antenna	
Option D:	Demand assigned multiple access	
10.	The direct equivalence between noise factor and noise temperature:	
Option A:	$Te=(F+1)T_0$	
Option B:	$Te = (F - 10) T_0$	
Option C:	$Te=(F-1) T_0$	
Option D:	$Te = (F - 1)/T_0$	

Please use either of the 3 option given below while setting up the subjective/descriptive questions

Q2	Solve any Four out of Six 5 marks each	
A	Explain different orbital parameters.	
В	Define and explain reliability in satellite.	
C	Explain design considerations of Earth Station.	
D	What is EIRP and [G/T] ratio. For a satellite circuit the carrier-to-noise ratios are uplink 23dB, downlink 20dB intermodulation 24 dB. Calculate the overall carrier-to-noise ratio in decibels.	
E	Compare: TDMA & FDMA.	
F - F	Explain GPS.	

Q3	Solve any Two Questions out of Three	10 marks each
A	Explain SPADE system.	
В	Derive satellite link budget equation.	
С	Explain VSAT.	

Q4		
A	Solve any Two	5 marks each
i.	State and explain Kepler's laws with the help of diagram.	
ii.	Explain input back off and output back off.	
iii.	Explain Laser satellite system.	Service of the servic
В	Solve any One	10 mark each
i.	Explain TT&C system with the help of block diagram.	
ii.	With the help of block diagram explain transmit receive type of earth station.	

BE | ETRX | INST | Extc | Sem - VIII - Choicebase | Enterpreneurship

University of Mumbai Development & Management

Examinations summer 2022

Time: 2 hour 30 minutes

Paper Code 93983 Max. Mar

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks		
1.	The 'T' in a PESTLE analysis refers to,		
Option A:	Technology		
Option B:	Time		
Option C:			
Option D:			
2.	BCG matrix is also referred as,		
Option A:	Growth-sell matrix		
Option B:	Business-cost matrix		
Option C:			
Option D:	Business-share matrix		
3.	The entrepreneur who has neither the will nor the desire to introduce and adoptine methods is called as,		
Option A:	imitating entrepreneur		
Option B:	adoptive entrepreneur		
Option C:	fabian entrepreneur		
Option D:	innovative entrepreneur		
4.	Combining of two or more businesses to try and achieve synergy to achieve more overall gains is referred as,		
Option A:	Merger Deal		
Option B:	Team Building		
Option C:	Franchise Setup		
Option D:	Partnership Deal		
5,	To convince a financial entity and an angel investor that the business can produce enough revenue to make a satisfactory profit and therefore attractive as an investment opportunity is called as,		
Option A:	Future plan		
Option B:	Profit-loss statement		
Option C:	Balance statement		
Option D:	Business plan		
	<u> </u>		
6.			
Option A:	The three pillars of sustainable development for the entrepreneurial ecosystem are Environment, Economy, Society		
Option A: Option B:	Environment , Economy, Society Ecology, Economy, Society		
Option A:	Environment, Economy, Society		

Paper code 93983 Which of the following is the responsibility of the government when it is in 7. promotional role for encouraging entrepreneurship Build up and strengthen the necessary development infrastructures such as power, Option A: transport, finance, marketing, institutions for training and guidance. Option B: It should see to it that the national resources are directed to the right purpose. Option C: Set up State Owned Enterprises (SOEs) Encourage or Discourage certain activities through monetary and fiscal incentives Option D: and disincentives 8. As per MSME, the investment in plant and machinery under manufacturing sector does not exceed ---- and in equipment under service sector does not exceed ----. Option A: 5 Lakhs - 10 Lakhs 10 Lakhs -15 Lakhs Option B: Option C: 25 Lakhs - 10 Lakhs 50 Lakhs - 10 Lakhs Option D: What is not the characteristics of PPP's Option A: Focuses of goods Option B: Resources Option C: Sharing Option D: Continuity 10. Trademarks relate to Practice and knowledge acquired through experience Option A: Option B: The protection of proprietary information of commercial value Option C: The right to reproduce one's own original work Option D: Brand identity

Q2.	Attempt any Two out of Three (10 marks each)	
A	What do you mean by a business plan? Explain the issues to be addressed in a business plan?	
В	Write a note on the various initiatives by GOI for women entrepreneurs. Give the impact on the marketing aspects of a product by entrepreneur by the us of Digital Marketing	
С		

Q3.	Attempt any Two out of Three	(10 marks each)
Α	Explain the process of closing your business?	
В	What are the functions of an entrepreneur in entrepreneurial development?	
	What are the Four types of firm level growth strategy?	

Q4.	Attempt any Two out of Three	(10 marks each)
A	Explain the steps on harvesting or closing small business.	
В	Note on Capital and its importance to entrepreneur.	***************************************
C	State the Importance of MSME's towards national growth.	