# Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Principles of Communication Engineering Course Code - DECE401

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8.

Mark only one oval.		
Diploma in Pharmacy		
Bachelor of Pharmacy		
B.TECH.(CSE)		
B.TECH.(ECE)		
BCA		
B.SC.(CS)		
B.SC.(BT)		
B.SC.(ANCS)		
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B.Sc.(MM)		
B.A.(MW)		
BBA		
B.COM		
B.A.(JMC)		
BBA(HM)		
BBA(LLB)		
B.OPTOMETRY		
B.SC.(MB)		
B.SC.(MLT)		
B.SC.(MRIT)		
B.SC.(PA)		
LLB		
B.SC(IT)-AI		
B.SC.(MSJ)		
Bachelor of Physiotherapy		
B.SC.(AM)		
Dip.CSE		
Dip.ECE		
<u>DIP.EE</u>		
DIPCE		

9.

<u>DIP.ME</u>
PGDHM
MBA
M.SC.(BT)
M.TECH(CSE)
LLM
M.A.(JMC)
M.A.(ENG)
M.SC.(MATH)
M.SC.(MB)
M.SC.(MSJ)
M.SC.(AM)
M.SC.CS)
M.SC.(ANCS)
M.SC.(MM)
B.A.(Eng)
Answer all the questions. Each question carry one mark.
. 1. The main advantage of frequency modulation over amplitude modulation
Mark only one oval.
that there will be no distortion
that the complete information is contained in the side bands
that it uses a wider band of frequencies
the elimination of noises

10. 2. Which of the following analog modulation scheme requires the minimum transmitted power and minimum channel bandwidth?

Mark only one oval.

( VSB

OSB-SC

SSB

( ) AM

#### 11. 3.

## The sideband of a narrow band FM signal is equal to Mark only one oval.



12.	4. Communication is the process of
	Mark only one oval.
	keeping in touch
	broadcasting
	exchanging information
	entertainment by electronics
13.	5. The advantage of AM with full carrier is
	Mark only one oval.
	less bandwidth
	less power requirement
	simple receiver circuit
	None
14.	6. For faithful broadcasting of high quality music, more suitable is
1-7.	
	Mark only one oval.
	PCM
	AM
	☐ FM
	PM

15.	/. IF value for a FM receiver is
	Mark only one oval.
	88 MHz 100 MHz 1.07 MHz None
16.	8. If signal frequency is 200 kHz then what will be the sampling frequency?
	Mark only one oval.
	300 kHz 400 kHz 500 kHz both b and c
17.	9. In an AM signal when the modulation index is one, the maximum power Pt (where Pc is the carrier power) is equal to
	Mark only one oval.
	Pc
	1.5 Pc
	2 Pc
	2.5 Pc

18.	10. In case of AM, increase in modulating signal amplitude leads to
	Mark only one oval.
	increase in modulated signal power
	decrease in modulated signal power
	ono change
	None
19.	11. Number of sidebands of a frequency modulated wave is
	Mark only one oval.
	2
	4
	1
	infinite
20.	12. Pre-emphasis in transmitter is to boost
	Mark only one oval.
	Low frequency
	High frequency
	Medium frequency
	None

21.	13. In an AM wave the total power content is 600 Watt and that of each sideband is 75 Watt. The modulation index is
	Mark only one oval.
	0.535
	0.607
	0.81599999999999
	1
22.	14. The ratio detector is a/an
	Mark only one oval.
	AM detector
	FM detector
	photo detector
	None of these
23.	15. Local oscillator in superheterodyne receiver is used to shift the frequency to the
	Mark only one oval.
	greater frequency
	lesser frequency
	intermediate frequency
	None of these

24.	16. Which one has the highest bandwidth
	Mark only one oval.
	DSB
	SSB
	VSB
	DSB-SC
25.	17. Pre-emphasis and de-emphasis is used to
	Mark only one oval.
	Reduce noise
	Reduce BW
	Control error
	None
26.	18. In PCM encoding, quantization level varies as a function of
	Mark only one oval.
	frequency
	amplitude
	square of frequency
	square of amplitude

2	27.	19. If the deviation is 75 kHz and maximum modulating frequency is 5 kHz, what is the bandwidth of an FM wave?
		Mark only one oval.
		80 kHz
		160 kHz
		40 kHz
		320 kHz
2	28.	20. Under sampling leads to
		Mark only one oval.
		Capture effect
		Aperture effect
		aliasing effect
		None of these
2	29.	21. Foster-Seeley discriminator is used for the detection of
		Mark only one oval.
		FM signal
		AM signal
		PCM signals
		None

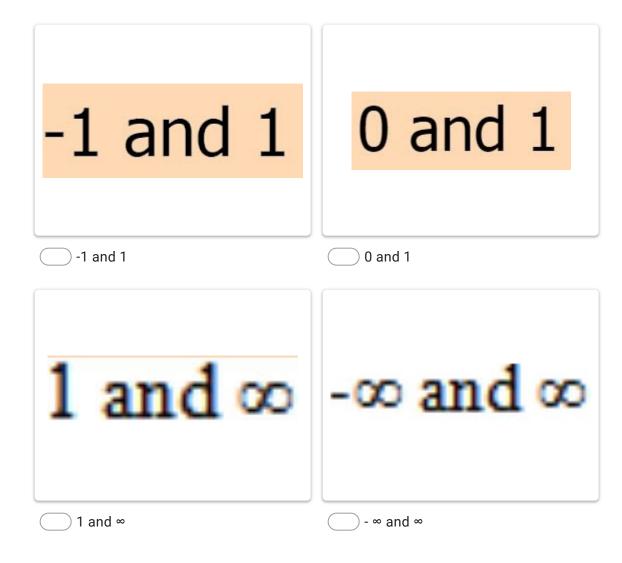
30. 22. Companding is used

Mark only one oval.

- to overcome quantizing noise in PCM
- in PCM transmitters, to allow amplitude limiting in the receivers
- to protect small signals in PCM from quantizing distortion
- in PCM receivers, to overcome impulse noise

31. 23. In AM the modulation index lies between

Mark only one oval.



32.	24. Limitations of AM modulation is/are-
	Mark only one oval.
	noisy reception poor audio quality low transmission efficiency and small operating range all of these
33.	25. Regenerative repeaters can be used in
	Mark only one oval.
	analog communication system only digital communication system only analog and digital communication systems none of these
34.	26. In SSB-FC, FC stands for
	Mark only one oval.
	Suppressed carrier Selected carrier Full carrier None

35. 27. A PCM receiver must contain

Mark only one oval.

mixer

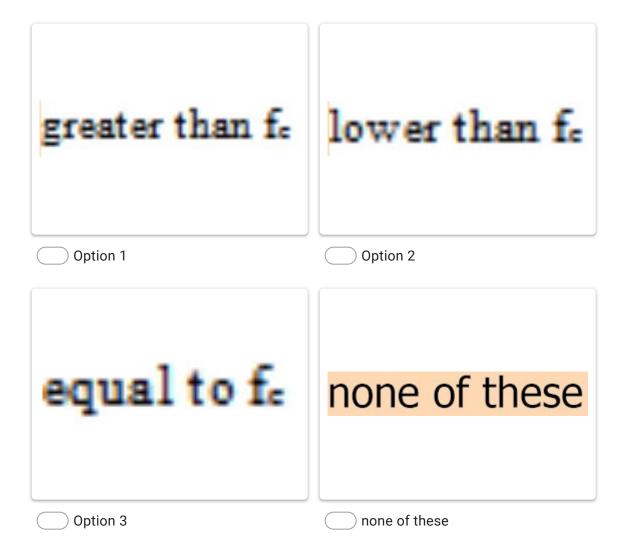
ratio detector

AND gate

None

36. 28.

In AM, the modulating frequency should always be Mark only one oval.



37.	29.	The	main	adva	ntage	of F	PCM	syste	em	is

	Mark only one oval.
	Ower bandwidth
	lower power
	lower noise
	none of these
38.	30. PAM is an
	Mark only one oval.
	analog pulse modulation
	digital pulse modulation
	binary pulse modulation
	None
39.	31. The sampling process converts
	Mark only one oval.
	continuous time signal into continuous time signal
	continuous time signal into a discrete time signal
	discrete time signal into a continuous time signal
	discrete time signal into discrete time signal

40.	32. Modern telephone used
	Mark only one oval.
	PM AM
	PCM
	PAM
41.	33. Which type of modulation is used in point to point mobile communication
	Mark only one oval.
	amplitude modulation
	frequency modulation
	pulse amplitude modulation
	delta modulation
42.	34. Which one of the following is an indirect way of generating FM?
	Mark only one oval.
	reactance FET modulator
	varactor diode modulator
	armstrong modulator
	reactance tube modulator

43.	35. In case of FM, increase in modulating signal amplitude leads to
	Mark only one oval.
	increase in modulated signal power
	decrease in modulated signal power
	on change
	None
44.	36. What is the maximum deviation for wideband FM?
	Mark only one oval.
	75 kHz
	25 kHz
	75 Hz
	25 Hz
45.	37. The pre-emphasis circuit provides extra noise immunity by
	Mark only one oval.
	Boosting the bass frequencies
	Amplifying the higher audio frequencies
	Pre-amplifying the whole audio band
	Converting the phase modulation to FM

46.	38. Sensitivity of radio receiver is defined by
	Mark only one oval.
	ability to receive very weak signal ability to reject unwanted signal ability to maintain constant gain none of these
47.	39. In superheterodyne receiver, the value of IF is  Mark only one oval.
	435 kHz 455 kHz 475 kHz None of these
48.	40. Fourier series is useful for determining the frequency components of a Mark only one oval.  Aperiodic signal  Periodic signal  Infinite signal  None

49.	41. The significant sidebands of Fivi are determined from
	Mark only one oval.
	Fourier Transform
	Laplace transform
	Bessel function
	Odd function
50.	42. Modulation is primarily accomplished to-
	Mark only one oval.
	produce side-bands
	mix two waves of different frequencies
	transmit-audio frequency signals over long distances
	improve transmission efficiency
51.	43. PCM is preferred to PAM because of its
	Mark only one oval.
	resistance to quantizing error
	simplicity
	lower cost
	superior noise immunity
	Superior noise minumy

52.	44. In AM, the modulating frequency should always be
	Mark only one oval.
	greater than fc
	lower than fc
	equal to fc
	none of these
53.	45. Which of the following modulation is the 1st step of PCM
	Mark only one oval.
	PAM
	PPM
	PWM
	None of these
54.	46. Which of the following is used for FM detection
04.	
	Mark only one oval.
	Ratio detector
	Photo detector
	Diode detector
	None

55. 47. Sample and hold circuit is an essential component of Mark only one oval. PCM system AM system FM system PM system 56. 48. Standard telephones receive their power from Mark only one oval. A battery An internal AC power supply An internal AC power supply A battery 48 Vac supplied by the telephone company 90 V ≈ supplied by the telephone company

Option 4

Option 3

5/.	49. ISDN stands for
	Mark only one oval.
	Integrated service digital network  International service digital network  International system for digital network  None of these
58.	50. In DM granular noise occurs when the modulating signal
	Mark only one oval.
	increase rapidly
	remain constant
	decrease rapidly
	None of these
59.	51. The original signal is extracted from the sampled signal using a
	Mark only one oval.
	Antialiazing filter
	Matched filter
	Notch filter
	Reconstruction filter

#### 60. 52. Essential circuit for PAM generation is

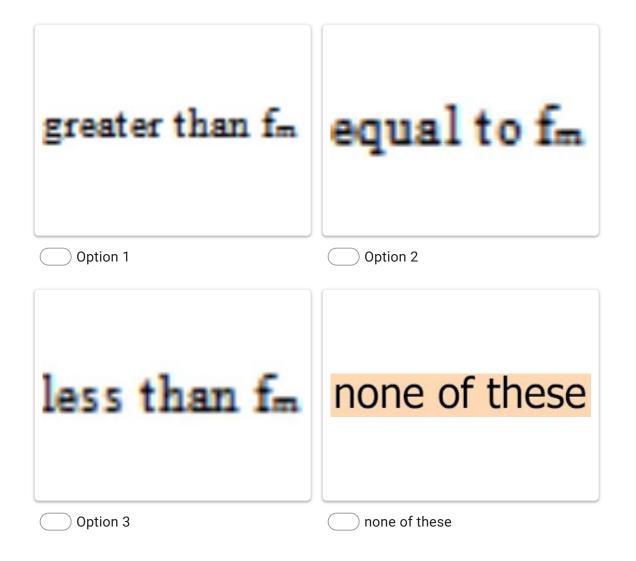
Mark only one oval.

- balanced modulator
- class-C amplifier
- ( ) sample and hold circuit
- none

#### 61. 53.

### If fm is the modulating frequency of an AM wave, the sideband frequencies of this wave are

Mark only one oval.



62.	54. In commercial TV transmission in India picture and sound signals are modulated respectively as
	Mark only one oval.
	VSB and FM
	VSB and VSB
	FM and VSB
	AM and FM
63.	55. If a signal band - limited fm Hz is sampled at a rate less than 2fm the reconstructed signal will be
	Mark only one oval.
	smaller in magnitude
	higher in magnitude
	have higher frequency suppressed
	distorted
64.	56. If the deviation is 75 kHz and maximum modulating frequency is 5 kHz, what is the bandwidth of an FM wave?
	Mark only one oval.
	80 kHz
	160 kHz
	40 kHz
	320 kHz

65. 57. In PCM, for greater number of quantization level, quantization noise will Mark only one oval.

( ) increase

decrease

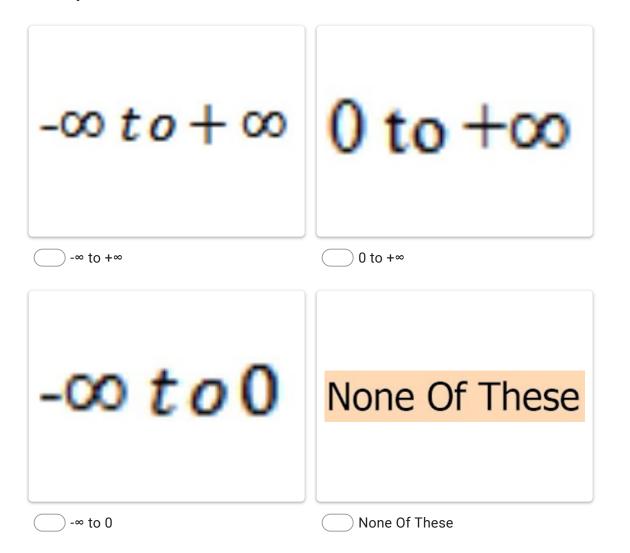
remain same

None None

66. 58.

In Fourier Transform the limit of integration is

Mark only one oval.



67.	59. The main source of noise in a communication system is
	Mark only one oval.
	Channel
	Transmitter
	Receiver
	None of these
68.	60. PWM is used in
	Mark only one oval.
	SMPS
	Inverter
	Amplifier
	oscillator

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