



PHYSICS

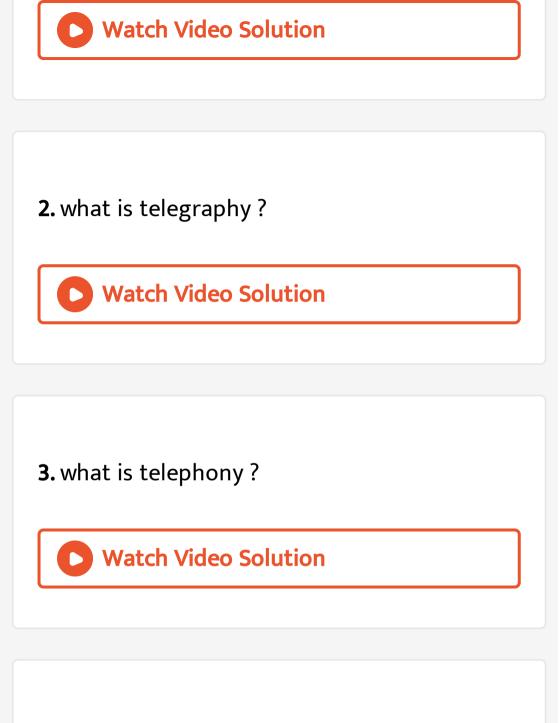
BOOKS - BINA LIBRARY PHYSICS (ASSAMESE ENGLISH)

COMMUNICATION SYSTEM

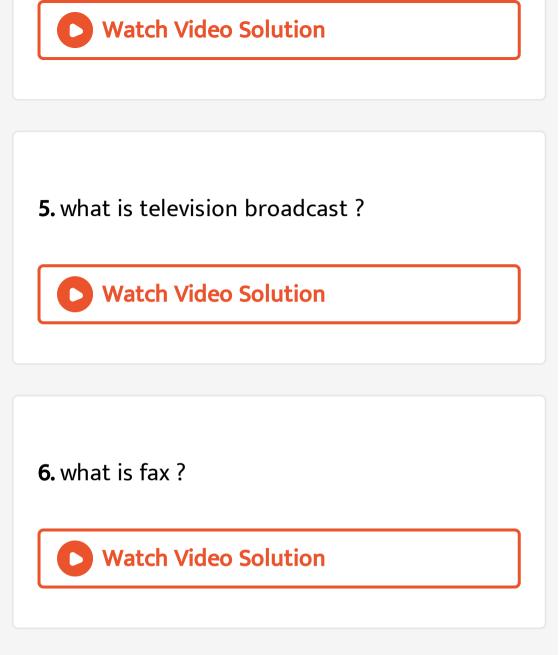


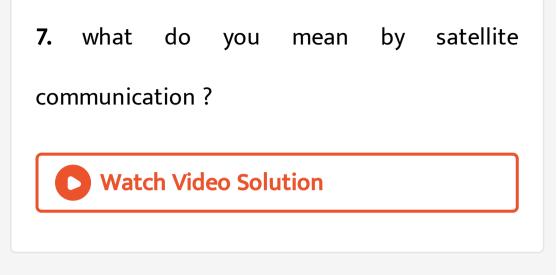
1. What do you mean by communication

system?



4. what is radio transmitter ?

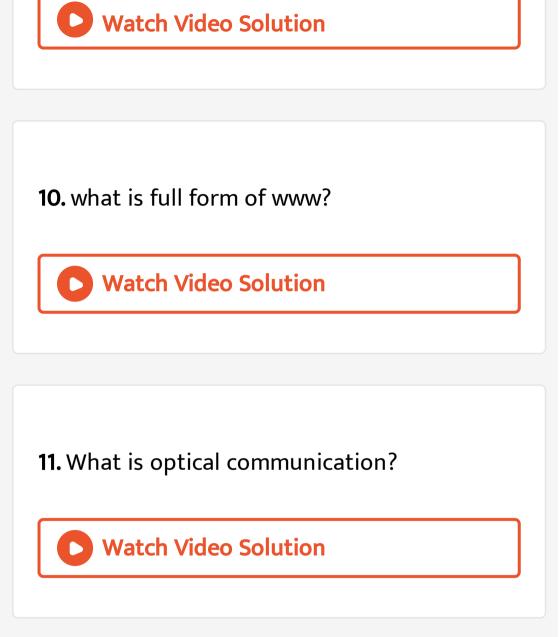


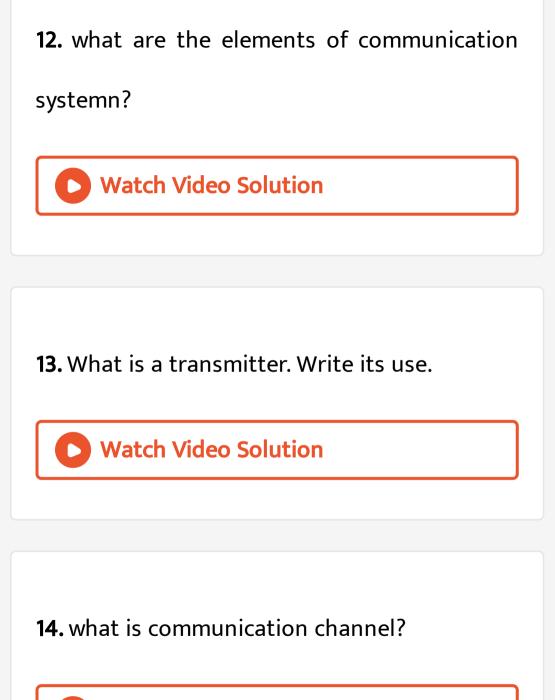


8. what do you mean by internet ?give some example .



9. what is e-commerce?





15. which terminology are used for electronics

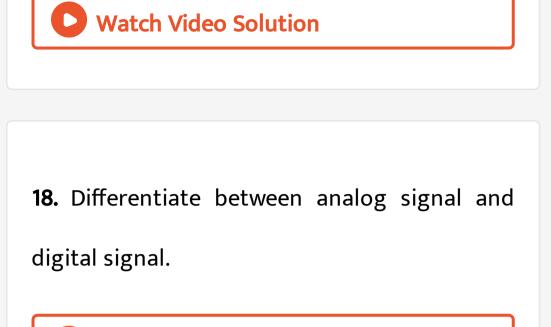
communication system ?



16. what are the types of signal ?

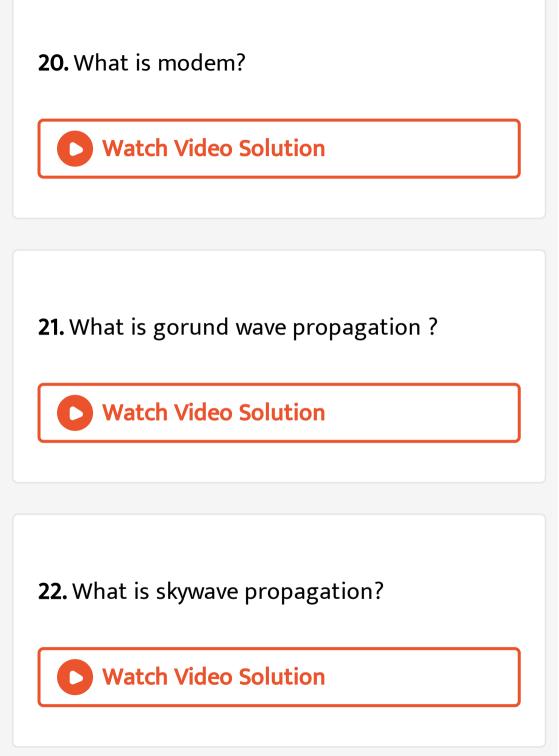


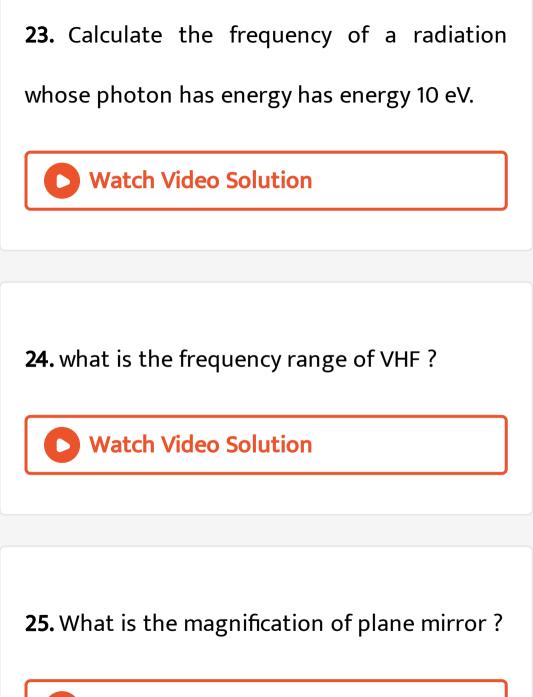
17. what is reciver ?



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19. what is repeater ?





26. Show the formation of a p type semiconductor with diagram.



27. State two examples of phenomenon of

refraction of light in everyday life



28. Write a short note on formation of a p-n junction. Watch Video Solution 29. what is pulse modulation? Explain. Watch Video Solution 30. what is frequency modulation ?

31. what are the need of modulation ?



32. Differentiate between analog signal and digital signal.



33. Write down the four Maxwell's equations.



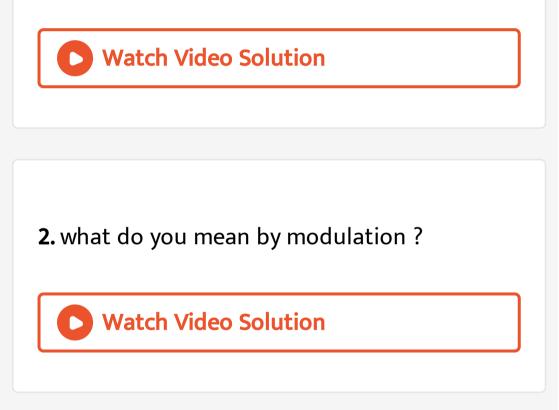
34. Draw a ray diagram to show the total internal reflection.

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35. What is FAX.

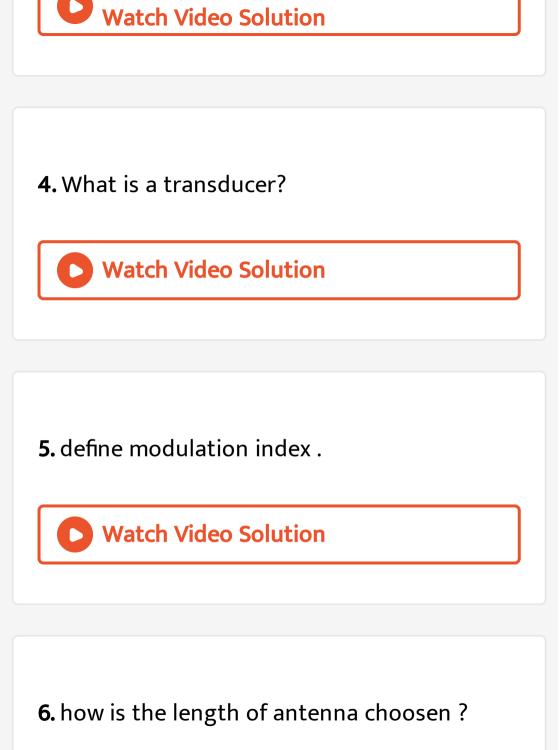


What do you mean by band width of a signal.

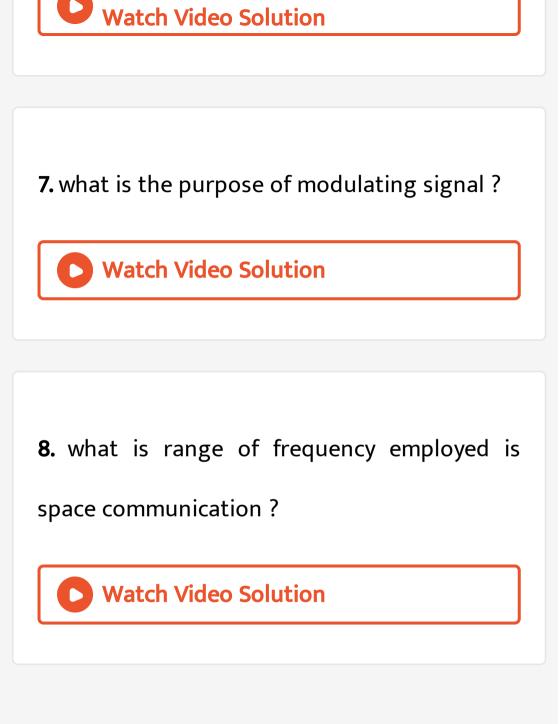


3. define the term band width of a signal .









9. why are tv signal is not used ramitted sky

waves ?

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10. Define the term BASE BAND of message signal.



11. Why is AM used for broadcasting radio signal ?

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12. mention the frequency at which TV signals

are transmitted ?

13. what is the advantage of frquency modulation. Watch Video Solution 14. what is the advantage of amplitude modulation.



15. How is the critical frequency related to maximum electron density in the ionosphere?
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16. What type of transmission is used in TV

broadcasting?

17. what is the range of wavelength of television broadcast ?
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18. what are the side bands of an amplitude

modulated wave ?



19. find an expression for bandwidth for amplitude modulation .
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20. What is digital communication? Mention

two advantages of digital communication.

21. what are the disadavanatages of analog

communication.

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22. Discuss the role of inosphere in radio-wave

communication



23. what is pulse modulation? Explain.



24. Describe the basic postulates of Bohr's

theory.

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25. What are the two basic modes of

communicatiuons?

26. What is demodulation? Why is satellite

communication necessary for TV signal?



27. What sign (+ve or-ve) is given to the focal

length of a concave mirror?

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28. mention the function of shunt capacitor ?





29. Draw block diagram of a generalized

communication system.

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30. Compare AM with FM wave.

31. Draw a labelled block diagram of a radio

transmitter.

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32. What are the different transmission media

for communication?

33. Define the term noise used in electronic communication Watch Video Solution 34. Disucss briefly the three modes of propagation of electromagnetic wave. Watch Video Solution

35. Why is modulation necessary?



36. What is amplitude modulation? Explain

with diagram.

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37. What sign (+ve or-ve) is given to the focal

length of a convex mirror?

38. For long distance radio broadeast, we use

short wave only. Why?



39. Why satellites are used for long distance

TV transmission.

40. in what respects radio waves and gamma

rays are different ?

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41. Why sky wave are not used in television signals.



42. expalin why Tv transmission are usually made high .Watch Video Solution

43. why high frequency carrier waves are

employed for transmission ?

44. why is short wave communication over long distance not possible by surface wave propagation ?



45. A radio can turn to any station in 7.5HZ TO

12MZband . What is the corresponding

wavelength band .

46. The maximum peak volatage of an AM wave

is 20 mV . If the modulating index is 50% find

the minimum peak voltage.

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47. Find the length of a dipole antenna at

frequency 10KHZ.

48. what should be the height of a transmitting antenna if TV telecast is to cover a radious of 128 KM?

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49. How many telephone channels each allotted to a band width of 8HZ can be accommodated in a microwave telephone link operating at the central frequency of 10^10 KHZ.



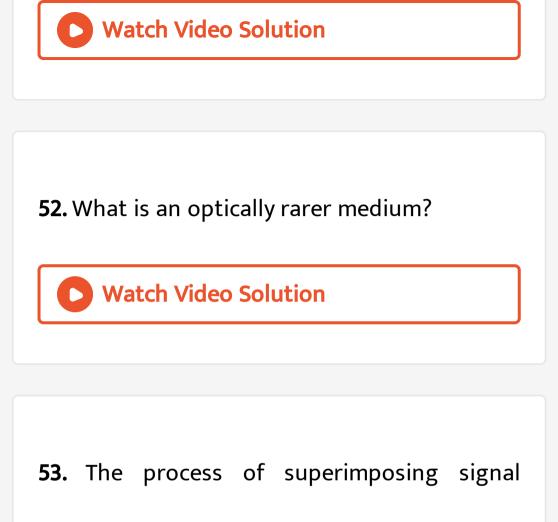


50. calculate the length of half wave dipole

antenna a) 30MHz b)300MHz c)3000MHz



51. A TV tower has a height of 100m how much population is covered by the TV broadcast if the avarage population density around the tower is 1000km²-2?(given radious of the earth = 6.37*10⁶ m)



frequency on carrier wave is known as

A. transmission

B. reception

C. modulation

D. detection .

Answer: C



54. The purpose of oscillator in AM transmitter

is to

A. provide modulationg signal

B. provide carrier

C. provide power of transmission

D. none of the above .

Answer: B

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55. The electromagnetic waves of frquency

range 2MHz to 30MHz are in

A. ground wave propagation

B. sky wave propagation

C. microwave propagation

D. satellite communication

Answer: B

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56. Radio waves of constant amplitude can be

generated with

A. filter

B. rectifier

C. oscillator

D. modem

Answer: C



57. In which frequency range space waves are

normally propagated ?

A. HF

B. VHF

C. UHF

D. SHF

Answer: C



58. For Long distance radio broadcasting uses

A. ground wave propagation

B. direct wave

C. ionospheric wave

D. space wave

Answer: C

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59. The radio waves of frquency 300MHz to 3000MHz belong t

A. high freqency bandvery high frequency

band

B. ultra high frequency band

C. super high frequency band .

D.

Answer: C



60. For televsion broadcasting the frequency

employed is normally in the range

A. 30-3000MHz

B. 30-300GHz

C. 30-3000KHz

D. 30-3000HZ

Answer: A



61. Radio frequency alloted for commercial FM

radio broadcast is in the range

A. 88-108MHz

B. 88-108KHz

C. 88-108GHz

D. 88-1108Hz

Answer: A



62. The length of a half wave dipole antenna at

30MHz is

A. 10m

B. 50m

C. 5m

D. 100m

Answer: C



63. wave length of a wave of frequency 10KHz

is

A. 30km

B. 30m

C. 300m

D. 300km

Answer: A



64. satellite transponders used for

A. a single frequency for reception and

transmission

B. low frequency for reception and high

frequency for transmission

C. high frequency for reception and low

frequency for transmission

D. none of the above .

Answer: C

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