



PHYSICS

BOOKS - BINA LIBRARY PHYSICS (ASSAMESE ENGLISH)

COMMUNICATION SYSTEM

Example

1. What do you mean by communication system ?



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2. what is telegraphy ?



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3. what is telephony ?



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4. what is radio transmitter ?



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5. what is television broadcast ?



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6. what is fax ?



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7. what do you mean by satellite communication ?



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



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9. what is e-commerce?



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10. what is full form of www?



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11. What is optical communication?



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12. what are the elements of communication systemn?



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13. What is a transmitter. Write its use.



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14. what is communication channel?



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15. which terminology are used for electronics communication system ?



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16. what are the types of signal ?



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17. what is reciver ?



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18. Differentiate between analog signal and digital signal.



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19. what is repeater ?



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20. What is modem?



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21. What is ground wave propagation ?



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22. What is skywave propagation?



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23. Calculate the frequency of a radiation whose photon has energy has energy 10 eV.



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24. what is the frequency range of VHF ?



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25. What is the magnification of plane mirror ?



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



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27. State two examples of phenomenon of refraction of light in everyday life



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28. Write a short note on formation of a p-n junction.



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29. what is pulse modulation? Explain.



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30. what is frequency modulation ?



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31. what are the need of modulation ?



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32. Differentiate between analog signal and digital signal.



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33. Write down the four Maxwell's equations.



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



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35. What is FAX.



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1. What do you mean by band width of a signal.



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2. what do you mean by modulation ?



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3. define the term band width of a signal .





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4. What is a transducer?



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5. define modulation index .



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6. how is the length of antenna choosen ?





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7. what is the purpose of modulating signal ?



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8. what is range of frequency employed is space communication ?



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9. why are tv signal is not used ramitted sky waves ?



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10. Define the term BASE BAND of message signal .



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11. Why is AM used for broadcasting radio signal ?



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12. mention the frequency at which TV signals are transmitted ?



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13. what is the advantage of frequency modulation .



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14. what is the advantage of amplitude modulation .



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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?



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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 ?



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19. find an expression for bandwidth for amplitude modulation .



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20. What is digital communication? Mention two advantages of digital communication.



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21. what are the disadvantages of analog communication .



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22. Discuss the role of ionosphere in radio-wave communication



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23. what is pulse modulation? Explain.



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24. Describe the basic postulates of Bohr's theory.



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25. What are the two basic modes of communications?



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26. What is demodulation? Why is satellite communication necessary for TV signal?



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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 ?





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29. Draw block diagram of a generalized communication system.



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30. Compare AM with FM wave.



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31. Draw a labelled block diagram of a radio transmitter.



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32. What are the different transmission media for communication?



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33. Define the term noise used in electronic communication



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34. Discuss briefly the three modes of propagation of electromagnetic wave.



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35. Why is modulation necessary?



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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?



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38. For long distance radio broadcast, we use short wave only. Why?



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39. Why satellites are used for long distance TV transmission.



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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.



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42. explain why Tv transmission are usually made high .



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43. why high frequency carrier waves are employed for transmission ?



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



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45. A radio can turn to any station in 7.5HZ TO 12MZhband . What is the corresponding wavelength band .



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46. The maximum peak voltage 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.



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48. what should be the height of a transmitting antenna if TV telecast is to cover a radius 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 .





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50. calculate the length of half wave dipole antenna a) 30MHz b)300MHz c)3000MHz



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51. A TV tower has a height of 100m how much population is covered by the TV broadcast if the average population density around the tower is 1000km^{-2} ?(given radius of the earth = $6.37 \times 10^6 \text{ m}$)



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52. What is an optically rarer medium?



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53. The process of superimposing signal frequency on carrier wave is known as

A. transmission

B. reception

C. modulation

D. detection .

Answer: C



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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 frequency 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



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57. In which frequency range space waves are normally propagated ?

A. HF

B. VHF

C. UHF

D. SHF

Answer: C



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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 frequency 300MHz to 3000MHz belong to

A. high frequency band very high frequency band

B. ultra high frequency band

C. super high frequency band .

D.

Answer: C



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60. For television broadcasting the frequency employed is normally in the range

A. 30-3000MHz

B. 30-300GHz

C. 30-3000KHz

D. 30-3000HZ

Answer: A



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61. Radio frequency allotted for commercial FM radio broadcast is in the range

A. 88-108MHz

B. 88-108KHz

C. 88-108GHz

D. 88-1108Hz

Answer: A



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62. The length of a half wave dipole antenna at 30MHz is

A. 10m

B. 50m

C. 5m

D. 100m

Answer: C



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63. wave length of a wave of frequency 10KHz

is

A. 30km

B. 30m

C. 300m

D. 300km

Answer: A



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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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