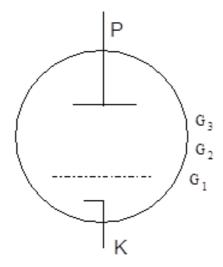
- 1. Medium wave broadcast band is from
- a) 530 kHz to 1600 kHz
- b) 3 MHz to 10 MHz
- c) 10 MHz to 30 MHz
- 2.Spark gap at the mast base is for the purpose of impedance matching (True/False)
- 3. Multiple pads are made up of
- a) Resistances
- b) Resistances & capacitors
- c) Capacitors and Inductance
- 4. We take frequency response of studio chain by using
- a) Audio frequency generator
- b) Multi- frequency test record
- c) Standard test tape
- 5. The three grids G1, G2, G3 in a pentode value are respectively called.



- a) Suppressor, Screen, Control
- b) Screen, Control, Suppressor
- c) Control, Screen, suppressor
- 6. The main advantage of crystal oscillator is:
- a) Its frequency is stable
- b) It is easily tunable
- c) It gives greater output.
- 7.In a MW transmitter, the modulator stage is
- a) Audio frequency amplifier
- b) Radio frequency amplifier
- c) A combined audio and Radio frequency amplifier
- 8. A receiver which is able to receive weak signal is called
- a) Sensitive b) Selective c) High quality
- 9. Efficiency of class A amplifier is about

- a) 30% b) 50% c) 70% d) 90%
- 10. In class C amplifier, the valve conducts for
- a) 360o b) 180o c) 120o
- 11. When P1 is input power and P2 is output power, the gain of an amplifier expressed in dB is
- a) $\frac{P_2}{P_1}$
- b) $20 \log_{10} \frac{P_2}{P_1}$
- c) $10 \log_{10} \frac{P_2}{P_1}$
- 12. The signal to noise ratio of an amplifier should be
- a) 70 db b) -70 dB
- c) 30 dB d) -30 dB
- 13. Equalisers are used to provide attenuation to the signal (True/False)
- 14. Which antenna is most commonly used with TV receiver.
- a) Folded dipole b) Inverted 'L' c) Rhombic
- 15. In Indian TV system, the total RF channel width in VHF band
- a) 6 MHz b) 7 MHz c) 8 MHz
- 16. In the tape recorder which magnetic head has the widest air gap
- a) Erase head
- b) Record head
- c) Replay Head
- 17. The three primary colour beams in TV picture tube are
- a) Red, Green, Blue
- b) Yellow, Magneta, Green
- c) Cyan, Pink, Blue
- 18. Ribbon microphone is
- a) Uni-directional
- b) Bi-directional
- c) Omni-directional
- 19. For the level measurement in dBm, the reference level choosen is
- a) 1 Watt b) 1 micro watt c) 1 milliwatt

Stands for

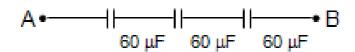
20

- a) AND gate b) OR gate c) NOR gate
- 21. When all the inputs of AND gate are '1', the output of AND gate will be
- a) 1 b) 0
- 22. The class of amplifier which provide maximum efficiency is
- a) A b) B c) C
- 23. In a circuit, diode is used for
- a) Matching b) Rectification
- c) Amplification
- 24. VU meter is used for indicating
- a) Level of programme

b) Distortion of programmec) Quality of programme	
25. Double dipole aerial is used for	
a) Medium wave b) Shortwave c) FM wave	
26. 0 dBm is same as	
a) 10 milliwatt b) 1 milliwatt	
c) 1 watt d) 10 watt	
27. Electrical signal is converted into sound by	
a) Loudspeakerb) Microphonec) Monitoring amplifier	
28. Dirty record and replay heads cause	
a) Wow and Flutter b) LF loss c) HF loss	
29. Austin transformer is used at	
a) Switch gear room b) HT roomc) Mast base	
30. For transmitting the signal to satellite, the frequency is in t	he range of
a) 30 MHz to 60 MHz b) 100 MHz to 200 MHz c) 4 GHz to 6 GHz	
31. Dish antenna is used to receive signals from	
a) ground wavesb) Satellitec) Ionosphere	
32. In a TV studio chain, video signal passes through	
a) Camera amplifier, Video Switcher and White limiterb) Video switcher, White limiter and Camera amplifier	
c) Camera amplifier, White limiter and Video switcher	
33. Immediately after microphone is connected.	
a) Programme amplifierb) Pre amplifierc) Cue amplifier	
34. Time delay relay is used at the transmitter to give sufficien	t time before the bias is put ON.
a) To heat the crystal ovenb) To heat the filamentc) To close the doors	
35. AVR is used to	

a) Heat the crystal ovenb) Supply a low voltagec) Supply a constant voltage

36. Value of capacitance between A & B is



- a) 180 μF b) 20 μF
- c) 60 μF

37. Write the name against each of the following symbols

- 38. Write the full form of the following
- a) SMPS b) LNBC c) dB
- d) PDA e) mH
- 39. Self radiating towers are used in TV transmitter stations (True/False)
- 40. Positive feed back in amplifier will result in oscillation (True/False)
- 41. The word "micro" prefixed before a scientific unit makes it to change to
- a) One millionth
- b) One thousandth
- c) Million times
- 42. Oscillator crystals are made up of
- a) Silicon
- b) Germanium
- c) Quartz
- 43. In frequency modulation

Amplitude of carrier remains constant

Frequency of the carrier remains constant

Both frequency & amplitude of the carrier remain constant

- 44. Heat sinks are provided to power transistor to dissipate heat. (True/False)
- 45. The expected value of earth pit resistance should be about

- a) 0.5 ohm b) 10 ohm
- c) 30 ohm d) 50 ohm
- 46. For a good transistor, the emitter to collector resistance should be about
- a) 0 ohm b) 250 ohm
- c) 25000 ohm
- 47. For a NPN transistor, the collector supply should be
- a) Positive b) Negative c) Grounded
- 48. For a feeder of 230 ohm impedance, the number of wires used in the feeder of 10 kW medium wave transmitter is normally,
- a) 4 wires b) 6 wires
- c) 2 wires d) 16 wires
- 49. Transformer oil is used in
- a) Filament transformer
- b) Austin transformer
- c) HT transformer
- d) All the above
- 50. For joining the feeder wire with another feeder wire you will use
- a) Line tap b) Soldering c) Threading