T. E. Semester VI (CBCGS) - E&TC
MOCK Paper
ARWP (ECC603)

1. Which material is preferred to fabricate the microstrip antenna?

a) $\varepsilon r = 20$

b) $\varepsilon r < 4.4$

c) $\varepsilon r = 15$

d) $\varepsilon r = 50$

2. End fire antenna having direction of maxima along

a. Array axis

b. Perpendicular to axis

c. 45 degree

d. 90 degree

3. When the radiation resistance of the antenna matches the characteristic impedance of the transmission line?

a) No transmission occurs
b) No reception occurs
c) SWR is maximum
d) SWR is minimum

4. The radiation pattern of a half-wave dipole has the shape of a _____
a) Doughnut
b) Sphere
c) Hemisphere
d) Circular

5. What is the beam width for a half wave dipole antenna?
a) 90°
b) 180°
c) 50°
d) 250°

6. What does the beam width of an antenna tell us?
a) Signal strength
b) Signal power
c) Directivity
d) Degradation

7. What is the polarization of helical antenna in axial mode?
a) Linearly Polarized
b) Elliptical polarized

c) Circularly polarized
d) LHCP

8. What is the radiation resistance of the folded dipole antenna?
a) 50Ω
b) 100Ω
c) 300Ω
d) 20Ω

9. Radiation resistance is defined as

a) Physical resistance

b) Virtual resistance

c) Wire resistance

d) None of the above

10. In a Yagi Uda antenna, the conductors that are not connected to the transmission line is called as?
a) Driven element
b) Parasitic elements
c) Extra elements
d) Array elements

11.Half power point is defined as

a) 3 dB point

b) 5 dB point

c) 10 dB point

d) 2 dB point

12. Frequency that is reflected by ionosphere at vertical incidence is defined as

a) critical frequency

b) MUF

c) LUF

d) OF

13. Find the radiation resistance of a half dipole whose overall length is λ/2

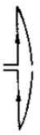
a) 73 ohms

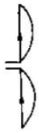
b) 36 ohms

c) 316 ohms

d) 0.316 ohm

14.Which is current distribution for λ/2 dipole antenna from following

a) 

b) 

c) 

d) 

15. If the diameter of a λ/2dipole antenna is increased from λ/100 to λ/50 then its

(a) Bandwidth increases

(b) Bandwidth decreases

(c) Gain increases

(d) Gain decreases

16. Power density is basically termed as _____ power per unit area
a. Reflected
b. Refracted
c. Radiated
d. Diffracted

17.Under which conditions of charge does the radiation occur through wire antenna?
a. For a charge with no motion
b. For a charge moving with uniform velocity with straight & infinite wire
c. For a charge oscillating in time motion
d. All of the above

18.How are the infinitesimal dipoles represented in terms of antenna length and signal wavelength?
a. $l \leq (\lambda /50)$
b. $(\lambda/50) < l \leq (\lambda /10)$
c. $l = \lambda/2$
d. $l = \lambda$

19 In an electrically small loops, the overall length of the loop is _____ one-tenth of a wavelength.
a. Less than
b. Equal to

c. Greater than
d. Not equal to

20. Cassegrain feed is used with a parabolic reflector to
(A) increase the gain of the system
(B) increase the bandwidth of the system
(C) reduce the size of the main reflector

(D) allow the feed to be placed at a convenient point

21.Directivity of antenna having beam area 2π
a) 2

b) 1

c) 2.5

d)1.5

22. Radiation Pattern is defined as

a) distribution of power intensity with spherical coordinate

b) distribution of Power density with spherical coordinate

c) Beam area

d) Angular distance

23.Cutoff frequency is sharply defined in

a) Binomial filter

b) Chebyscheff filter

c) Equiripple filter

d) None of these

24. Frequency at which attenuation is maximum in ionosphere called as

a) Gyro frequency

b) Critical frequency

c) MUF

d) OF

25. Skip distance is defined as
a) Minimum possible distance between transceiver
b) Maximum possible distance between transceiver
c) Distance at which reflection from ionosphere
d) Distance at which radiation from ionosphere

26. For UHF band earth act as a

a) Perfect electric conductor

b) Leaky capacitor

c) Loss medium

d) Resistive

27.for what frequency Microstrip patch antenna is used

a) Microwave frequency

b) VHF frequency

d) MF

d) HF

28.One steradian is equal to

a) 360 Square degree

b) 180 Square Degree

c) 3283 Square Degree

d) 41253 Square degree

29. When pitch angle of helical antenna is 90 then helix become a____

a) Loop antenna

b) Dipole antenna

c) Folded dipole

d) Linear wire

30. The feed element in parabolic reflector is placed at a distance

a) less than focal length

b) greater than focal length

c) twice the focal length

d) equal to the focal length