



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Science (Honours) in Advanced Networking & Cyber Security

Course Name – Electronic Appliances in Everyday Life

Course Code - GEEC401

(Semester IV)

Time allotted : 1 Hrs.15 Min.

Full Marks : 60

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 60=60

Choose the correct alternative from the following :

- (1) The audio frequency range

a) 5 Hz to 1 KHz	b) 50 Hz to 1 KHz
c) 16Hz to 20 KHz	d) 0 Hz to 20KHz.
- (2) UHF range is

a) 30 MHz to 300 MHz	b) 300 MHz to 3000MHz
c) 3000 MHz to 30000 MHz	d) above 30000 MHz
- (3) The filter circuit for feeding a woffer has

a) an inductance in series and capacitance in parallel	b) a capacitance in series and an inductance in parallel
c) a resistance in series and inductance in parallel.	d) None of these
- (4) Audio amplifiers need

a) bass contro	b) treble control
c) both (a) & (b)	d) either (a) or (b).
- (5) In a CD the depth and width of each pit is

a) 0.5µm each	b) 0.5µm and 1 µm respectively
c) 1µm each	d) None of these
- (6) Bass-reflex type enclosures increase the strength of

a) low audio frequency	b) high audio frequency
c) complete audio frequency range	d) reflected waves.
- (7) In a television camera tube, scanning of a picture is done

a) line by line from left to right	b) line by line from right to left
c) line by line from top to bottom	d) line by line from bottom to top.
- (8) The characteristics impedance of a twin feeder used for TV signals is about

- a) 100Ω b) 500Ω
 c) 300Ω d) 75Ω
- (9) The sub-carrier frequency for transmission of colour difference signals TV system in India is
 a) 9.47 MHz b) 4.43 MHz
 c) 2.06 MHz d) 1.3 MHz
- (10) Which phenomenon is sensed by listeners in stereo-phony?
 a) loudness b) timber
 c) pitch d) direction
- (11) Radio broadcasts are generally
 a) amplitude modulated b) frequency modulated
 c) both amplitude and frequency modulated d) neither amplitude nor frequency modulated
- (12) Tracks pitch and pits density of DVD is
 a) double of VCD b) same as VCD
 c) half of VCD d) four times of VCD.
- (13) How does the duration of program recorded on a tape speed?
 a) higher the tape speed lower the duration b) it does not depend on tape speed
 c) lower the tape speed, greater is the duration d) it depends on gap-size alone
- (14) Duration of the vertical blanking pulse used in India is
 a) 64μs b) 100μs
 c) 160μs d) 1280μs
- (15) Which of the following microphone has distortion?
 a) Ribbon b) Crystal
 c) Condenser d) carbon.
- (16) A direct radiating cone type loudspeaker attenuates
 a) medium range frequency b) very low frequency
 c) high frequencies d) very low & high frequencies
- (17) A tweeter should be fed from the input through a
 a) LPF b) HPF
 c) BSF d) BPF
- (18) A CD the In sampling frequency is nearly
 a) half the highest frequency in audio signal b) equal to highest frequency in audio signal
 c) double the highest frequency in audio signal d) None of these
- (19) The directions of pick up in a CD is
 a) linear from centre towards edge b) linear form edge to centre
 c) non- linear from centre to edge d) non- linear from edge to centre
- (20) Graphic equaliser system in stereophonic systems generally have
 a) 3 & 4 bands b) 1 band
 c) more than 8 bands d) large number of bands
- (21) Just when the video signal is applied to the picture tube in a TV receiver, the strength of video signal is about
 a) 1000V b) 200V
 c) 50V d) 1V
- (22) A rigid flat material used to extend the edges of loudspeaker cone is called.

- a) woofer
c) baffle
- b) tweeter
d) Oscillator
- (23) What makes a microphone unidirectional?
a) Reflection
c) Diffraction
- b) Refraction
d) Pressure gradient
- (24) Sound waves travel as-
a) longitudinal waves
c) both(a) and (b)
- b) transverse waves
d) either (a) or (b)
- (25) Which of the following microphone is the cheapest? -
a) moving coil
c) ribbon
- b) condenser
d) carbon.
- (26) The material used for the magnet of moving coil cone type loudspeaker is –
a) steel alloy
c) hard steel
- b) soft iron
d) alnico
- (27) Which of the following microphones has an inbuilt amplifier? –
a) condenser
c) ribbon
- b) moving coil
d) carbon
- (28) compact discs are
a) magnetic recording and retrieval
c) optic recording but magnetic retrieval
- b) optic recording and retrieval
d) Magnetic recording and optical retrieval
- (29) The reason for using corrugated ribbon is-
a) To allow delicate tensioning by the spring action of the ribbon
c) To increase frequency response and balancing
- b) To increase the effective length of the ribbon or increasing impedance
d) both (a) & (b)
- (30) Two plates in which the alternating force from the sound waves causes an alternating EMF to be generated is known as-
a) Cartridges
c) Faders
- b) Bimorph Elements
d) Crystal Element
- (31) Magnetic material used in magnetic tape is-
a) Beta – Ferric Oxide
c) Nitric Oxide
- b) Gamma – Ferric Oxide
d) Cupric Oxide
- (32) Base material used in magnetic tape is-
a) Gamma- Ferric Oxide
c) Cellulose
- b) Cellophane
d) Crape Paper
- (33) The length of double play is-
a) 360m
c) 730m
- b) 550m
d) 220m
- (34) The process by which the magnetic information recorded on the tape can be removed or wiped off before recording new information is known as-
a) recording
c) play back
- b) erasing
d) forward
- (35) The process of storage of sound is-
a) erasing
c) record/play back
- b) recording
d) forward
- (36) The device which controls the speed of supply reel and take up reel is-

- a) driving belts
c) pinch rollers
- b) capstan
d) fly wheels
- (37) A pressure wheel or pad which keeps the tape pressed against the capstan and minimises the possibility of tape slippage or varying speeds-
- a) fly wheeler
c) driving belts
- b) pinch roller
d) Idler
- (38) The standard width of a recording tape is-
- a) 0.64cm
c) 0.25cm
- b) 0.50cm
d) 0.65cm
- (39) The most tape recorder operation on a slow speed comprise gap width varying between-
- a) 0.0023cm to 0.00065cm
c) 0.0025cm to 0.00064cm
- b) 0.065cm to 0.075cm
d) 0.035cm to 0.065 cm
- (40) The reverse of play back process is-
- a) reverding process
c) earse process
- b) record/ play back process
d) forward process
- (41) The frequency response of a crystal microphone is-
- a) 30000Hz
c) 10000Hz
- b) 20000Hz
d) 600Hz
- (42) Which of the micro phone operates on the principle of electromagnetic induction-
- a) carbon microphone
c) dynamic moving coil microphone
- b) crystal microphone
d) cordless microphone
- (43) The frequency response of a condenser microphone is-
- a) 10 Hz to 2KHz
c) 20 Hz to 2KHz
- b) 30 Hz to 9KHz
d) 40Hz to 9KHz
- (44) The ribbon microscope the Ribbon is made up of-
- a) Corrugated aluminium foil
c) crystal
- b) Carbon
d) copper
- (45) Which of the following is an important requirements of a good mixing ckt?
- a) The impedance matching
c) The resistance serve as a static lick & prevents a click being introduced due to sharp flow of current
- b) The question of unbalance introduced by using a variable resistance in one leg
d) Both (a)&(b)
- (46) From the following in which the crystal microphone depends for ots operation-
- a) Electromagnetic Induction
c) Magnetic Property
- b) Piezoelectric property
d) Electric Property
- (47) From the following what is the general requirement from the micro phone-
- a) the response of the micro phone should be depends on frequency
c) the frequency range should be very high
- b) the response of the micro phone should be independent of frequency
d) the frequency range should be very low
- (48) The varying pressure of the carbon granutes modulated a steady dc current that flows through the circuit due to a polarizing potential is of about how much applied from telephonic circuit
- a) 20v
c) 50v
- b) 30v
d) 60v

- (49) Impedance of the loudspeaker is of the order of-
- a) ohms
 - b) mega ohms
 - c) kilo ohm
 - d) Giga ohm
- (50) Baffle is used with
- a) microphone
 - b) tape recorder
 - c) loudspeaker
 - d) disc recorder
- (51) Enclosure of a loudspeaker act as-
- a) woofer
 - b) infinite baffle
 - c) tweeter
 - d) finite baffle
- (52) What does a dual loudspeaker system with cross sell network consists-
- a) inductance
 - b) capacitance
 - c) resistance
 - d) Both (a)&(b)
- (53) The functions of baffles in speaker system is
- a) to allow high frequencies to pass
 - b) to avoid cancellation of compression reflections of air
 - c) to provide statorily to the speaker
 - d) to produce echo effectively
- (54) What should be the dimension of the baffle in order to obtain a good response down to 60 Hz
- a) 6.8*86.5cm
 - b) 68.5*68.5mm
 - c) 137*137cm
 - d) 137*137mm
- (55) A CD player reads the recorder information from the-
- a) centre track
 - b) innermost track
 - c) outermost track
 - d) inner track
- (56) The distance between spiral track is known as-
- a) pitch-track
 - b) track
 - c) Pitch
 - d) Track-pitch
- (57) The Negative image of the final CD is obtained on the-
- a) Aluminium coating
 - b) stamper
 - c) Nickel Metal Master
 - d) Mother
- (58) When the large quantity of final CD to be produced, which stamper is used to make additional "son" stamper-
- a) "Father" Stamper
 - b) Nickel Master
 - c) "Mother" Stamper
 - d) Glass photo resist
- (59) First TV station in India was established in-
- a) 1956
 - b) 1959
 - c) 1962
 - d) 1965
- (60) Another name for the horizontal retrace in a TV receiver is the-
- a) Fly back
 - b) burst
 - c) damper
 - d) ringing