16U	421 (Pages: 2)	Name
		Reg. No
]	FOURTH SEMESTER BCS/BCA DEGREE EXAMIN	ATION, APRIL 2019
	(CUCBCSS-UG) CC15U GN4 A14 (1) – BASICS OF AUDIO & V	TDFO MFDIA
	(Common Course)	IDEO MEDIA
	(2015 Admission Onwards)	
Γime:	Three Hours	Maximum: 80 Marks
	PART I	
	Answer all questions. Each question carries	1 mark.
1.	A transducer that converts sound waves to electrical sign.	als is called
2.	The audible range of frequencies is between 20Hz to	Hz.
3.	Name the nerve that carry signals from ear to brain	
4.	Reverberation is caused by of sound waves.	
5.	Which microphone need an external dc voltage?	
6.	What is the highest usable frequency of a tape if the speed is S and the gap width is G?	
7.	In equaliser each band has an individual slider control which can boost or	
	cut the signals in respective band.	
8.	What is amplitude?	
9.	effect helps us the brain to focus on the desire	ed sound ignoring the
	unwanted noise.	
10 is the sound pressure level at which thresho		of pain is felt.
		$(10 \times 1 = 10 \text{ Marks})$
	PART II Answer any <i>five</i> questions. Each question carri	as 2 marks
11	What is the effect of gap width in tape recording?	CS 2 marks.
	What is mini?	
	Describe the mechanism of hearing of human ear.	
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	Explain DA conversion.	
	Define directivity of a microphone.	
	What is the use of crossover network?	
17.	Explain the principle of analog video recording.	

 $(5 \times 2 = 10 \text{ Marks})$

PART III

Answer any six questions. Each question carries 5 marks.

- 18. Explain ribbon microphone.
- 19. Distinguish MPEG 1, 2 and 4.
- 20. Discuss electrodynamic loudspeaker.
- 21. Explain stereophony.
- 22. Differentiate reflection, refraction and diffraction.
- 23. Explain the following filters:
 - a) High pass b) Low pass c) Band pass d) Notch
- 24. Differentiate woofer and tweeter.
- 25. Explain the principle on which magnetic recording works.

 $(6 \times 5 = 30 \text{ Marks})$

PART IV

Answer any two questions. Each question carries 15 marks.

- 26. What are the requirements for a good auditorium for pleasant listening? Give salient features of acoustical design for an auditorium.
- 27. Explain VCD, DVD and blue ray disc recording and playing.
- 28. Explain the construction and working of a moving coil microphone.
- 29. Write a note on Horn type loudspeaker. Why is it called as indirect radiating type?

 $(2 \times 15 = 30 \text{ Marks})$
