

**19U421S**

(Pages: 2)

Name: .....

Reg. No. ....

**FOURTH SEMESTER B.Sc. CS/B.C.A. DEGREE EXAMINATION, APRIL 2021**

(CUCBCSS-UG)

**CC15U GN4 A14 (1) – BASICS OF AUDIO & VIDEO MEDIA**

(General Course)

(2015 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

**PART I**

Answer *all* questions. Each question carries 1 mark

1. What kind of wave motion is sound?
2. What is the sensitivity of ribbon microphone?
3. When several loudspeakers are mounted one above the other, the arrangement is called \_\_\_\_\_
4. The first device to record actual live sound is \_\_\_\_\_
5. In Dolby system when is pre – emphasis done?
6. A rigid flat material used to extend the edges of the speaker is \_\_\_\_\_
7. Which is the crystal used in crystal microphone?
8. Most video compression techniques use \_\_\_\_\_ compression.
9. A \_\_\_\_\_ filter is a filter that passes higher frequencies well but attenuates lower frequency components.
10. The frequency range of audible sound is \_\_\_\_\_

**(10 × 1 = 10 Marks)**

**PART - II**

Answer any *five* questions. Each question carries 2 marks.

11. Define stereophony.
12. Define sensitivity of a microphone.
13. What is meant by white and pink noise?
14. What do you mean by equalization?
15. Write a short note on gramophone.
16. Differentiate lossy and lossless compression techniques.
17. Give a short note on blu-ray discs.

**(5 x 2 = 10 Marks)**

### **PART - III**

Answer any *six* questions. Each question carries 5 marks.

18. Discuss the working of carbon microphone
19. Describe the reverberation chamber method for evaluation of sound absorption.
20. Explain how sound is refracted in different media.
21. Briefly describe the different types of equalizers.
22. Explain MIDI
23. Discuss VCD and DVD.
24. Compare AC and DC biasing.
25. Explain different video compression standards.

**(6 × 5 = 30 Marks)**

### **PART - IV**

Answer any *two* questions. Each question carries 15 marks.

26. Explain with a neat diagram basic tape recording and playback. Give its advantages and disadvantages.
27. Discuss the hearing mechanism of human ear.
28. With a neat diagram explain the working of any 2 loudspeakers.
29. Describe analog video recording.

**(2 × 15 = 30 Marks)**

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