

15U417

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Name:

Reg. No.

FOURTH SEMESTER BCS/BCA DEGREE EXAMINATION, MAY 2017

(CUCBCSS - UG)

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

(Common Course)

(2015 Admission)

Time: Three Hours

Maximum: 80 Marks

PART I

Answer all questions.

Each question carries 1 mark.

1. The process of adjusting the balance between frequency components is called
 2. Number of successive compression and refractions occurring in a second is known as.....
 3. Mp3 follows standard
 4. Any alteration of the original sound is
 5. MPEG stands for.....
 6. is the time gap between direct sound reaching the ear and the first reflection of sound to the ear
 7. Unwanted sound is called.....
 8. Noise produced by a resistor is called..... noise
 9. MPEG stands for.....
 10. The SI unit of audio frequency is the.....
- (10 x 1 = 10 marks)**

PART II

Answer any five questions.

Each question carries 2 marks.

11. How can Speech, Music and Noise be differentiated?
12. Explain H.26 standards
13. Capacitance of a Capacitor Microphone is 2.5, the charge on the capacitor is 200 coulombs. Calculate the Voltage across the capacitor in volts?
14. Explain characteristics of Loudspeaker
15. What is mean by MIDI? Explain

16. What is equalizer? Explain
17. Discuss about the diffraction of sound.

(5 x 2 = 10 marks)

PART III

Answer any six questions.

Each question carries 5 marks.

18. Explain noise reduction techniques
19. Explain acoustics of auditorium.
20. Discuss video compression techniques
21. Differentiate low pass and high pass filters
22. Explain the basics of Analog Video Recording principle? And also explain the relationship of tape speed and band width
23. Explain
a) Mixers
b) VCD
c) DAT
24. Explain Blu-Ray Disc Recorders
25. Discuss the comparison between Cone Type and Horn Type Speakers

(6 x 5 = 30 marks)

PART IV

Answer any two questions.

Each question carries 15 marks.

26. Discuss the significance of DC and AC bias.
27. Draw the block diagram of a basic Tape Recording and Playback circuit. Explain it
28. What is DVD? Explain its working principle and parts with diagram
29. Differentiate between Crystal & Capacitor Microphones

(2 x 15 = 30 marks)
