BPA PROGRAMME –MRIDANGAM

6th SEMESTER

No MR 1643 (Theory)

Time: 3 hours   Total Marks 80

I Write Answers in one or two sentences   (1x10=10)

1. What is Frequency?
2. Define Echo
3. Name any 2 file extensions of an audio file
4. What is Sukshma Nadam
5. Write the relation between Pitch and thickness of a string
6. What is refraction
7. Quote 2 examples for Nakhajam
8. What do you mean by a compressed file?
9. What are sound waves?
10. Mention the 2 classifications of naadam?

II.   Answer any EIGHT from12 of the following not exceeding one paragraph
                                                                              (8x2=16)
11. What is Noise?
12. Mention any 4 causes that affects the intensity of a note?
13. Mention any 2 acoustical problems faced, when a concert is performed in a stadium?
14. Write 2 instruments each, that provide, Drone Harmony and Rhythmical Harmony
15. What is Octave?
16. State the 3 factors that determine the pitch of a string
17. What is antinode and nodes?
18. How is the pitch influencedby the Tension of a String?

19. What do you mean by Ubhayasambhava?

20. Give the 12 notes of a Sthayi?

21. Difference between Melody and Harmony?

22. Differenciate Ahatha and Anahatha?

III.   Write short Essay on any 6 from the 9 of the following   (6x4=24)

23. Echo

24. Pitch

25. Timbre

26. Laws of Vibration of Strings

27. Harmonics of Strings

28. Acoustics

29. Sound Intensity

30. Write about the possibilities in softwares like Audacity

31. What are sympathetic vibrations?

IV   Write an essay on any 2 from the 4 of the following questions   (15x2 =30)

32. Explain the basic acoustical requisites a concert hall must possess?

33. Bring up the factors that enable a fine transmission of Sound?

34. How can you relate "the physics of sound with the practice of using Thambura in a concert"?

35. Propagation of sound and the factors that influence it