MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

FIRST SEMESTER EXAMINATION

(2024 ADMISION ONWARDS)

MG1DSCSDV100 - FUNDAMENTALS OF ACOUSTICS

Duration: 2 hrs. Maximum Marks: 70

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

*Remember (K), Understand (U), Apply (A), Analyze (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)

Part A

Very Short Answer Question Answer 10 Questions

Each question carries 2 marks

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1. What are partials in sound?	[U] [CO2]
2. What defines a harmonic sound?	[U] [CO2]
3. Identify one factor influencing sound reflection.	[K] [CO4]
4. How is sound refraction defined?	[U] [CO4]
5. What unit is used to measure acoustic impedance?	[K] [CO5]
6. What kinds of materials are effective at absorbing sound?	[U] [CO5]
7. What is the role of the outer ear?	[U] [CO6]
8. What is the meaning of SIL?	[K] [CO6]
9. How would you define sound transmission?	[U] [CO3]
10. What does medium density refer to?	[K] [CO3]
11. How would you define sound?	[U] [CO1]
12. what is the unit of frequency?	[K] [CO1]
	$[2 \times 10 = 20]$
Part B	$[2 \times 10 = 20]$
Part B Short Answer Type Questions	$[2 \times 10 = 20]$
	$[2 \times 10 = 20]$
Short Answer Type Questions	$[2 \times 10 = 20]$
Short Answer Type Questions Answer 6 Questions	$[2 \times 10 = 20]$
Short Answer Type Questions Answer 6 Questions Each question carries 5 marks	[U] [CO3]
Short Answer Type Questions Answer 6 Questions Each question carries 5 marks 13. How does temperature affect sound transmission in gases, and why?	[U] [CO3]
Short Answer Type Questions Answer 6 Questions Each question carries 5 marks 13. How does temperature affect sound transmission in gases, and why? 14. Explain how midrange frequencies contribute to sound clarity in environments like to	[U] [CO3] heaters or
Short Answer Type Questions Answer 6 Questions Each question carries 5 marks 13. How does temperature affect sound transmission in gases, and why? 14. Explain how midrange frequencies contribute to sound clarity in environments like to classrooms. 15. Explain the role of the cochlea in hearing. 16. How you can sound proof a room?	[U] [CO3] heaters or [A] [CO6] [U] [CO6] [A] [CO5]
Short Answer Type Questions Answer 6 Questions Each question carries 5 marks 13. How does temperature affect sound transmission in gases, and why? 14. Explain how midrange frequencies contribute to sound clarity in environments like to classrooms. 15. Explain the role of the cochlea in hearing. 16. How you can sound proof a room? 17. Explain the Role of bass traps in acoustic design	[U] [CO3] heaters or [A] [CO6] [U] [CO6] [A] [CO5] [U] [CO6]
Short Answer Type Questions Answer 6 Questions Each question carries 5 marks 13. How does temperature affect sound transmission in gases, and why? 14. Explain how midrange frequencies contribute to sound clarity in environments like to classrooms. 15. Explain the role of the cochlea in hearing. 16. How you can sound proof a room?	[U] [CO3] heaters or [A] [CO6] [U] [CO6] [A] [CO5]

20. How do overtones contribute to the perception of timbre in different musical instruments?

[U] [CO2]

21. What is phase cancellation? Explain.

[U] [CO1]

 $[5 \times 6 = 30]$

Part C Essay Type Questions Answer 2 Questions Each question carries 10 marks

22. what is acoustic imedance? Explain significans and facorts affecting Acostic impedance?

[U] [CO5]

- 23. Analyze the relationship between the density of a medium and the speed of sound. Provide examples of how sound travels differently in materials with varying densities. [An] [CO3]
- 24. Explain the Characteristics of sound and sound wave

[U] [CO1]

 $[10 \times 2 = 20]$

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

FIRST SEMESTER EXAMINATION (2024 ADMISION ONWARDS)

MG1DSCVCN100 - ART OF STORYTELLING

Duration: 1 ½ hrs Maximum Marks: 50

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

Part A

Short Answer Questions, <u>Answer any 5</u> of the following.

Each question carries 2 marks

1.	What role does Krishna play in the Mahabharata?	[U]	[CO3]
2.	What is the primary purpose of storytelling?	[K]	[CO1]
3.	What is the role of storytelling in early human communication?	[U]	[CO2]
4.	How is the theme of sacrifice represented in ancient epics?	[U]	[CO4]
5.	Define the term 'verbal communication'.	[K]	[CO1]
6.	What are the key steps in developing a story?	[K]	[CO5]
7.	What is the difference between Paleolithic and Neolithic art?	[U]	[CO2]

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

Part B

Answer any 4 in one paragraph each.

Each question carries 5 marks

8. Explain the significance of Sita's character and her trials in the Ramayana.	[U] [CO3]
9. Analyze how adaptations can reshape the portrayal of heroic figures in epics.	[An] [CO4]
10. Evaluate the importance of conflict in driving a narrative forward.	[E] [CO5]
11. Discuss the development and significance of cuneiform writing.	[U] [CO2]
12. Analyze the moral dilemmas faced by the characters in the Ramayana.	[An] [CO3]
13. Explain the importance of the Altamira cave paintings.	[K] [CO1]
	$4 \times 5 = 20 \text{ Marks}$

Part C

Essay Questions. Answer any 2 of the following.

Each question carries 10 marks

1. Analyze the significance of mentorship and guidance in the development of epic heroes.

[An] [CO4]

- 2. Discuss the significance of visual storytelling in ancient civilizations and how it contributed to cultural preservation. [U] [CO1]
- 3. Write a short story using all key elements: setting, characters, conflict, climax, and resolution. Introduce the setting and characters, build to a climax, and conclude with a clear resolution.

[C] [CO5]

4. Analyze the role of the Latin alphabet in the evolution of modern European languages.

[An] [CO2]