

ELIZADE UNIVERSITY, ILARA-MOKIN, ONDO STATE

FACULTY OF HUMANITIES DEPARTMENT OF PERFORMING AND FILM ARTS FIRST SEMESTER EXAMINATION 2017/2018 ACADEMIC SESSION

FA 303
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COURSE TITLE: ACOUSTIC & ELECTRONIC FOR THE PFA

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DURATION: 2 Hours

HOD's SIGNATURE

INSTRUCTION: Answer one and any two questions. (Write legibly and explain yourself clearly).

Question No.				Total Mark
1.	a.	Wri	ite short notes on any 4 of the following.	
		i.	Decibel	2marks
		ii.	Consonance and Dissonance	2marks
		iii.	Diffraction of sound	2marks
		iv.	Reflection of sound	2marks
		v.	Refraction of sound	2marks
		vi.	Impact transmission	2marks
		vii.	Why Wind instruments go out of tune.	2marks
		viii.	Amplitude	2marks
	b.	Expla	ain the difference between Noise and a Musical Tone	4marks
2.	a.	Discu	iss fully the nature of Sound, from the state of vibration to audibility with	8marks
	b.	i.	A sound was generated at a frequency of 120cps and a velocity of 1100 ft/sec Calculate the wavelength.	4marks
		ii.	A sound was generated at a frequency of 256cps and a wavelength of 8 ft. Calculate the velocity.	4marks
		iii.	What is the frequency of a note of a wave-length 8ft? Assume the velocity of	
			Sound = 1,100ft. per second.	4marks

		20marks
a.	Discuss fully the Doppler Effect	10marks
b.	A man standing on a particular sport at the front of Faculty building saw an ambulance with it willing siren coming from health center and zoomed past him a speed of 100ft/sec. to campus gate. If the frequency of the siren is 500cps, calculate the apparent frequency (i) as it approaches the man, and	
	(2) as it recedes from him (Given: of sound in air = 1100 ft/sec).	<u>10marks</u>
a.	State the Law of Pythagoras	5marks
b.	State the Law of Mersenne	5marks
c.	Discuss fully the acoustic applications of each of the above laws	10marks
a.	Discuss fully the overtone with regard to color in music.	5marks
b.	The frequency of the fundamental of an organ pipe is 64cps. Calculate the frequency of its 1 st 10 overtone	
c.	State the principle of Formants and Transients and give acoustic implication.	10marks 5marks
a.	Discuss various microphones used in enhancing the film and sound production.	10marks
b.	Why do we need a separate microphone for the film production?	5marks
c.	Discuss basic tools needed for a home studio	5marks