#### APPENDIX 1 (RESEARCH INSTRUMENT)

#### **SECTION A**

#### PARTICIPANT INFORMATION SHEET

I am a level 400 Diagnostic Radiography student at the University of Cape Coast. I am carrying out a research study on the knowledge and awareness of diagnostic imaging students in Ghana on artificial intelligence and its prospects in medical imaging. The findings of this study will be used to provide baseline information for the various universities, and other relevant bodies about the level of knowledge and awareness diagnostic imaging students have about AI in medical imaging and it will also serve as a guide on how to educate the students. Participation in this study is voluntary and if at any point you wish to no longer take part in the research you have the right to withdraw at any time without any coercion. All the information you give **will be anonymous and confidential** and only used for the purposes of the research which will only be available only to me.

I would be most grateful if you could spare 15 minutes of your time to provide answers to the questionnaire.

Would you like to proceed with questionnaire?

Agree

Disagree

### **SECTION B**

# PART 1: PARTICIPANT'S DETAILS Please provide the following information Age: ..... Sex: ..... Level: ..... Name of institution: ..... PART 2: GENERAL KNOWLEDGE ABOUT ARTIFICIAL INTELLIGENCE. In this part, kindly select either Yes or No 1. Do you know the full meaning of AI? • Yes • No • Not sure 2. Do you have any knowledge about AI in general? Yes No Not sure 3. Do you think AI is a bad technology? Yes No Not sure 4. Do you think AI poses threat to people's job security? Yes No Not sure

5.	Do you think Al is brin	iging about changes in t	the health sector?
•	Yes	• No	• Not sure
PART IMAG		ABOUT ARTIFICL	AL INTELLIGENCE IN MEDICAI
<u>In this</u>	part, please provide eith	er True or False.	
6.	AI has been incorporate mammography, etc.	ed into current imaging	modalities such as CT machine, MRI,
•	True	• False	• Not sure
7.	AI helps reduce radiation imaging.	on dose levels while ma	intaining optimal image quality in medical
•	True	• False	• Not sure
8.	AI plays a role in patier procedures.	nt positioning and paran	neter selection during medical imaging
•	True	• False	• Not sure
9.	AI helps to detect patho	logies in CT and MRI s	scans.
•	True	• False	• Not sure
10.	AI has increased the acc	curacy and sensitivity in	the identification of chest pathologies.
•	True	• False	• Not sure

# PART 4: AWARENESS ABOUT ARTIFICIAL INTELLIGENCE IN MEDICAL IMAGING

In this part, provide either Yes or No

11. Are you aware that AI is a	un emerging trend in medi	ical imaging?			
• Yes	• No	• Not sure			
12. Are you aware that AI is gradually emerging in Ghana's radiography sector?					
• Yes	• No	• Not sure			
13. Do you think AI would have an overall positive impact in medical imaging?					
• Yes	• No	• Not sure			
14. Do you have a concern the radiographer?	at AI would someday disp	place you from your work as a			
• Yes	• No	• Not sure			
15. Do you acknowledge the pequipment in radiography	•	ors associated with AI- induced			
• Yes	• No	• Not sure			

## PART 5: CLINICAL PRACTICE AND CURRICULUM

In this part, select either Yes or No.

16. Do you believe AI w	ould improve education in me	edical imaging here in Ghana?			
• Yes	• No	• Not sure			
17. Do you think clinica	l practice helps you to apprec	iate the role of AI in medical imaging?			
• Yes	• No	<ul><li>Not sure</li></ul>			
18. Do you think clinical practice helps to increase the level of knowledge and awareness about AI in medical imaging?					
• Yes	• No	<ul> <li>Not sure</li> </ul>			
<ul><li>19. Do you think the cur on AI?</li><li>Yes</li></ul>	rent imaging curriculum in yo	our school should incorporate modules  • Not sure			
<ul><li>20. Would you like to le</li><li>Yes</li></ul>	arn more about AI and its pro  No	espects in medical imaging?  • Not sure			