Manmohan Technical University Office of the Controller of Examinations		Exam Roll: Exam Roll in words:			
Exam Year: 2081, Jestha (Model Question)	Exam Koi	I IN WOFUS:		•••••	
School: SOE		Level: BE		r's Sign:	
Program: BEEE	Year/P	art: III/II	Superintendent's Sign:		
Subject: Consumer elec	ctronics E0	onics EG652EX		Code No.	
·····×	9/		9/		
i. Answers should be given by filling th ii. The main answer sheet can be used f	e Multiple-(Choice Questions' Answer		Code No.	
GROUP A (Multiple-Choice Questions)		[10x1=10]		Time: 20 Minute	
 What is the primary function of a twee a loudspeaker system? Reproduce low frequencies Reproduce mid-range frequencies Reproduce high frequencies Amplify all frequencies 	eter in	6. The function of television is to a. Convert and b. Decode dig c. Improve pidd. Enhance so	o: alog signals ital broadca cture resolut	to digital signals st signals	
2. Which video scanning technique redufficker?a. Progressiveb. Interlacedc. Sequentiald. Raster		7. What type of organic comp a. LED b. LCD c. OLED d. Plasma	display tech ounds to em	it light?	
 3. What is the function of an equalizer in audio system? a. To balance the left and right audio signals b. To adjust the frequency response c. To amplify sound signals d. To store audio data 		8. Which home technology? a. Air Conditi b. Washing M. c. Microwave d. Refrigerato 9. What is the property of the condition o	oner achine Oven r imary purpo	ose of a voltage	
 4. What is the standard refresh rate of an HDTV? a. 24 Hz b. 50 Hz c. 60 Hz d. 120 Hz 		regulator in an a. To increase b. To ensure a c. To modify d. To amplify 10. What is the fu	current flow stable volta signal freque voltage	v ige supply ency	
 5. The chrominance signal in color TV is responsible for: a. Brightness b. Resolution c. Color information d. Synchronization 	s	a. Wireless da b. Audio sign c. Power conv d. Video com	ta transmiss al processing version	ion	
Multiple Cho					

Marks Secured: __ A B C D 1. A B C D In Words: __ Corrected Fill 7. A B C D 2. A B C D Examiner's Sign: _____ Date: ___ $A \bigcirc C \bigcirc$ lack B C D3. A B C D Scrutinizer's Marks: _____ Incorrected Fill 4. (A) (B) (C) (D) A B C D In Words: _ 5. A B C D 10. A B C D Scrutinizer's Sign: _____ Date: _

Manmohan Technical University Office of the Controller of Examinations

Exam Year: 2082, Jestha (Model Question)

School: SOE	Level: BE	Time: 3 Hours
Program: BEEE	Year/Part: III/II	Full Marks: 50
Subject: : Consumer electronics EG652EX		

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

GROUP A (Multiple-Choice Questions in separate paper)

 $[10 \times 1 = 10]$

GROUP B (Short Answer Questions - Attempt Any Eight Question)

 $[8 \times 2 = 16]$

- 1. Explain the significance of the decibel (dB) scale in acoustics.
- 2. What are the key differences between mono, stereo, and quad sound systems?
- 3. Describe the function of a loudspeaker enclosure in audio systems.
- 4. What are the advantages of LED TVs over LCD TVs?
- 5. Explain the working principle of a TFT display.
- 6. What is the purpose of video conferencing systems? List two applications.
- 7. How does a barcode scanner work?
- 8. What is the role of a power supply (SMPS/UPS) in electronic devices?
- 9. How does an air conditioner regulate room temperature?

GROUP C (Long Answer Questions – Attempt Any Six Questions)

 $[6 \times 4 = 24]$

- 10. Explain in detail the working principle of a microphone with a suitable diagram.
- 11. Compare the characteristics of CRT, LCD, and OLED display technologies.
- 12. Discuss the function and importance of a set-top box in a DTH system.
- 13. With the help of a diagram, explain the functioning of a refrigerator.
- 14. Discuss the role of EMI/EMC compliance in consumer electronics.
- 15. Explain the working of an air conditioning system with a neat diagram.
- 16. Compare and contrast RFID and barcode technology.

THE END