



OEEL211

Reg. No.

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II Semester B.Sc. Degree Examination, October - 2022

**ELECTRONICS**

**Consumer Electronics (Open Elective)**

**(NEP - 2020 Scheme)**

**Paper : ELE-OE-2.1**

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Jayanagar IV Block  
Bangalore-560 011

**Maximum Marks : 60**

**Time : 2½ Hours**

**Instructions to Candidates:**

**Answer All the questions from Part - A, any Ten from Part - B and any Four from Part - C**

**Note: Answer all Questions from Part - A in one page and only once.**

**PART-A**

**(20×1 = 20)**

**Answer ALL the subdivisions.**

1. i) The microphone converts \_\_\_\_\_
  - a) Electric signal to sound
  - b) Sound to electric signals
  - c) Audio to video
  - d) Video to audio
- ii) The value of intermediate frequency in AM radio receiver is
  - a) 455Hz
  - b) 455Khz
  - c) 455Mhz
  - d) 10.7Mhz
- iii) What type of speaker used for to produce low frequency audio signals?
  - a) Tweeter
  - b) Midrange
  - c) Woofer
  - d) None of the above
- iv) Where to use the PA system?
  - a) Public gathering
  - b) Closed theater
  - c) Conference hall
  - d) All the above
- v) Expand HDMI cable
  - a) High Definition multimedia interface
  - b) High data multiple index
  - c) Huge data media interface
  - d) None

**[P.T.O.]**



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- vi) CATV Stand for
- a) Cable television
  - b) Cathode television
  - c) Camera television
  - d) Closed anode television
- vii) OLED means
- a) Orange LED
  - b) Organic LED
  - c) Open LED
  - d) On LED
- viii) The use of Remote control in TV system is
- a) To select channels
  - b) To change the volume
  - c) To change brightness and contrast
  - d) All the above
- ix) What is the function of set top box?
- a) Decoding digital TV signals
  - b) Encoding digital TV signals
  - c) Convert AF to RF
  - d) Convert VHF to UHF
- x) What do you mean by DLP projector ?
- a) Digital Light Processing
  - b) Data level processing
  - c) Delay Line Pointer
  - d) Display level pointer
- xi) Land line phone is an example for
- a) Wireless communication system
  - b) Wire communication system
  - c) Radio communication
  - d) Satellite communication system
- xii) What is the abbreviation for SIM card
- a) Subscriber Index module
  - b) Subscriber Identity module
  - c) Source Index module
  - d) Subscriber Interference module
- xiii) The GPS system used for
- a) Navigation
  - b) Metal detection
  - c) Scanning
  - d) Health monitor

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- xiv) What is the operating frequency Bluetooth device?
- a) 2.4Ghz
  - b) 455khz
  - c) 10.7Mhz
  - d) 1 Ghz
- xv) The modern XEROX machine can do
- a) Printing
  - b) Scanning
  - c) Coping
  - d) All the above
- xvi) The Digital clock can shows the time format in
- a) 12 hrs
  - b) 24hrs
  - c) Both 12 and 24
  - d) None
- xvii) CCTV means
- a) Closed Circuit TV
  - b) Cable Circuit TV
  - c) Channel Created TV
  - d) Consumer Catch TV
- xviii) What is the heart of Microwave oven
- a) Compressor
  - b) Magnetron
  - c) Transistor
  - d) Diode
- xix) The major component of Refrigerator is
- a) Compressor
  - b) Heating coil
  - c) Condenser
  - d) Expansion valve
- xx) The basic principle of dishwasher is
- a) Hot water and detergent are sprayed by the rotating arms around the dishwasher
  - b) Using soap powder with brush cleaning
  - c) Cleaning dishes with air
  - d) Compressing the gas inside

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#### PART - B

Answer any TEN questions.

(10×2=20)

2. List the applications of Public address system.
3. Draw the construction of dynamic moving coil loud speaker.
4. What are the various methods of audio recording methods.
5. Draw the diagram, showing the arrangements of speakers, mic and amplifiers position

[P.T.O.]



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6. What is a set top box and mention application.
7. Distinguish between LCD and LED TV.
8. What are the components required to set up Home theatre.
9. Explain the difference between cordless phone and mobile phone.
10. What is a cell and define frequency reuse in cell phone system.
11. Give any two major differences between GSM and CDMA system.
12. Draw the basic block diagram of multifunction Xerox machine.
13. Write a note on Digital camera.
14. Compare Refrigerator and Air condition system.
15. What is the basic principle of vacuum cleaner.
16. Write a note on smart watch.

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#### PART - C

Answer any FOUR questions.

(4×5=20)

17. Draw the block diagram of Public Addressing (PA) system and explain the function of each block.
18. Explain the working of AM radio receiver with block diagram.
19. Draw the block diagram of CATV and explain its working.
20. Draw the block diagram of mobile phone and explain its working.
21. Explain the construction and working of Microwave oven.
22. Draw the block diagram of CCTV system and explain its working.