

1090**Code : 15EC54T***Register
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V Semester Diploma Examination, Oct./Nov.-2019**APPLICATIONS OF ELECTRONICS ENGINEERING****Time : 3 Hours]****[Max. Marks : 100**

- Instructions :** (i) Answer any six questions from Part – A. ($5 \times 6 = 30$ marks)
(ii) Answer any seven full questions from Part – B. ($7 \times 10 = 70$ marks)

PART – A

1. Distinguish between the Barcode and QR code. 5
2. Describe briefly the ultrasonic car safety belt system. 5
3. Demonstrate how capacitive Microphone works. 5
4. Describe the operation of moving Iron head phone. 5
5. Name any five features of CRT. 5
6. List the five features of Touch Screen. 5
7. Compare Analog TV with HDTV. 5
8. List the five applications of Electronic music synthesizers. 5
9. Define Robot and list its any four applications. 5

PART – B

10. (a) Explain the structure of calculator with diagram. 7
(b) List any three applications of fuzzy logic control in washing machine. 3
11. (a) Analyze the block diagram of Microwave oven, briefly. 7
(b) Name any three features of printer. 3

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| 12. | (a) | Explain the Anti Brake System (ABS) with block diagram. | 5 |
| | (b) | Describe briefly the Electronic ignition in automobile engines. | 5 |
| 13. | (a) | Explain the Theft detection and remote locking in vehicles. | 5 |
| | (b) | Develop a vehicle navigation system and explain. | 5 |
| 14. | (a) | List the five features of Ideal Loudspeaker. | 5 |
| | (b) | List the five features of woofers. | 5 |
| 15. | (a) | Explain the working of plasma TV. | 5 |
| | (b) | Differentiate LCD monitor with LED Monitor. | 5 |
| 16. | (a) | Sketch and explain the operation of Electronic Synthesizer. | 7 |
| | (b) | List any three advantages of virtual reality systems. | 3 |
| 17. | | Explain the working of non-servo control system and servo-control system in Robotics. | 10 |
| 18. | | Describe the components of Robotic system with the help of neat diagram. | 10 |
| 19. | (a) | Explain the components of vision system in Robotics. | 7 |
| | (b) | List any three features of Electrical actuators in Robotics. | 3 |
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