

# 1654

Code : 15EC54T

Register  
Number

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V Semester Diploma Examination, Nov./Dec. 2017

## APPLICATIONS OF ELECTRONICS ENGINEERING

Time : 3 Hours ]

[ Max. Marks : 100

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

### PART-A

1. Write short notes on Xerox Machine. 5
2. Explain Electronic ignition lock system. 5
3. List different types of Microphones headphones and Loud Speakers. 5
4. Explain the operation of any one headphone with neat figure. 5
5. List image / video capturing and displaying electronic devices. 5
6. Write a note on Smart TV. 5
7. Mention atleast five electronic Musical Instruments. 5
8. Mention the applications of virtual reality. 5
9. Define robotics and list applications of robotics. 5

## PART-B

10. Write about working principle of Microwave cooking and write the block diagram of Microwave oven. 10
11. What is a calculator ? With a neat diagram explain Internal organisation of a Calculator. 10
12. Explain the following :  
(a) ABS 5  
(b) Solar automobiles. 5
13. With block diagram explain vehicle proximity detection system. 10
14. With relative diagram explain any two microphone. 10
15. (a) Draw the block diagram of Colour TV Receiver. 5  
(b) Mention the features of digital camera 5
16. (a) Write a note on electronic guitar. 5  
(b) Write a short note on video gaming system. 5
17. Analyse the non-servo control system and servo control system in robotic application. 10
18. (a) Explain degrees of freedom. 5  
(b) List advantages and disadvantages of Robot. 5
19. (a) Define Sensors. Classify different Robotic sensors. 5  
(b) Define Actuators. Explain electrical actuators. 5