

Code : 15EC54T

Register
Number

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V Semester Diploma Examination, April/May-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. List any five available consumer electronic gadgets with their application. 5
2. Explain Electronic ignition. 5
3. Define the following : 5
 - (a) Audio signal
 - (b) Amplifier
 - (c) Bass control
 - (d) Treble control
 - (e) Decibel
4. Explain how crystal loudspeaker works. 5
5. Explain the block diagram of TV communication system. 5
6. Compare LED and LCD monitor. 5
7. Mention at least five electronic musical instruments. 5
8. List the features of smart TV. 5
9. Define robotics and list applications of robotics. 5

PART – B

10. What is a calculator ? With a neat diagram, explain internal organization of a calculator. 10
11. Mention and with the help of block diagram, explain machine which helps to clean the clothes. 10
12. Explain the following :
(a) ABS 5
(b) Solar automobiles 5
13. Analyse the block diagram of vehicle navigation. 10
14. With relative diagram, explain any two microphone. 10
15. (a) Draw the block diagram of colour TV transmitter. 5
(b) Write a note on Touch Screen. 5
16. (a) Write a note on Music & video editing. 5
(b) Explain the concept of Virtual Reality and its applications. 5
17. Analyse the non-servo control system and servo control system in robotic application. 10
18. Explain the components of robotic system. 10
19. (a) Briefly explain robotic vision system. 5
(b) List the qualities of robot. 5