



DRR-3286
Third Year B. Sc. (Sem. VI) Examination
March / April – 2016
Electronics : Paper-X
(Applications of Communications Systems)

Time : Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दृशावेव निशानीवाणी विगतो उत्तरवाही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : <input type="text" value="Third Year B. Sc. (Sem. VI)"/></p> <p>Name of the Subject : <input type="text" value="Electronics : Paper-X"/></p> <p>Subject Code No. : <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="8"/> <input type="text" value="6"/> Section No. (1, 2,.....): <input type="text" value="Nil"/></p>	<p>Seat No. : <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; height: 80px; display: flex; align-items: center; justify-content: center; margin-top: 10px;">Student's Signature</div>
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- (2) Q. 1 is compulsory.
- (3) Figures at extreme right indicate full marks.
- (4) Draw figures/diagrams to support your answer.
- (5) Assume data, if required.

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| 1 | Answer in brief : | 8 |
| | (A) Write the full name of IF, SHR, TWT, RADAR. | |
| | (B) Which types of scanning we use in TV ? which one is best ? | |
| | (C) Compare various types of FM demodulator. | |
| | (D) What is detection in communication ? | |
| 2 | (A) Draw the block diagram of TRF receiver explain each block in detail. | 8 |
| | (B) Why we use diode in detector circuit ? | 3 |
| | (C) Explain term AGC. | 3 |

OR

- 2 (A) Draw the block diagram of TV Receiver and explain each block. 10
- (B) What is synchronization in TV ? Explain in brief. 4
- 3 (A) State the application of Radar Range Equation and derive it. 8
- (B) Explain basic of color TV in brief. 3
- (C) A stationary CW RADAR transmits at frequency of 5 GHz. Calculate the Doppler frequency seen by it when the target has a radial velocity of 110 km/hr. 3
- OR**
- 3 (A) Discuss working and function of Magnetron. 8
- (B) Explain Scanning systems of TV in detail. 6
- 4 Write Short Notes : (Any Two) 14
- (A) SHR
- (B) Pulsed RADAR System
- (C) Vestigial Side Band system
- (D) Multi cavity Klystron.
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