



DRR-3285

Third Year B. Sc. (Sem. VI) Examination

March/April – 2016

Electronics : Paper - IX

(Instrumentation)

Time : 2 Hours]

[Total Marks :

Instructions :

(1)

| | |
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| नीचे दृशावेव निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book. | Seat No. : |
| Name of the Examination : | <input type="text"/> |
| <input type="text" value="THIRD YEAR B. SC. (SEM. VI)"/> | <input type="text"/> |
| Name of the Subject : | <input type="text"/> |
| <input type="text" value="Electronics : Paper - IX"/> | <input type="text"/> |
| Subject Code No. : <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="8"/> <input type="text" value="5"/> | Section No. (1, 2,.....) : <input type="text" value="Nil"/> |
| Student's Signature | |

- (2) Q. 1 is compulsory.
- (3) Figures at extreme right indicate full marks.
- (4) Draw figures / diagrams to support your answer.

1 Answer briefly : 8

- (A) Define resolution of a DVM.
- (B) What is preventive maintenance ?
- (C) Define distortion factor.
- (D) If frequency applied on vertical and horizontal plates is same, then what Lissajous figure will appear on screen?

2 (A) Explain block diagram of digital frequency meter. 7

(B) Explain square and pulse wave generator. 7

OR

2 (A) Explain sampling oscilloscope in detail. 7

(B) Discuss the time base generator of CRO. 7

- 3 (A) Discuss successive approximation digital volt meter. 7
(B) Explain heterodyne wave analyze. 7

OR

- 3 (A) Explain Integrating type of digital voltmeter. 7
(B) Discuss digital multimeter. 7

- 4 Write short notes : (any two) 14
(A) Function generator
(B) Block diagram of CRO
(C) Harmonic distortion Analyzer
(D) Split half method of troubleshooting.