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Roll No

EC-604 (GS)**B.E. VI Semester**

Examination, December 2017

Grading System (GS)**Antenna and Wave Propagation***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Explain about the radiation from a half wave dipole antenna.
2. Explain about the electromagnetic field close to an antenna.
3. Discuss the principle working of travelling wave antenna.
4. Discuss about the horizontal pattern in broadcast arrays.
5. Discuss the principle working of loop antenna and Yagi-Uda antenna.
6. Discuss the principle working of turnstile antenna and rhombic antenna.
7. Discuss about Dolph-Chebyshev synthesis of sum pattern.

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8. Answer any four of the following:

- a) Explain about the power radiated by a current element.
- b) Explain briefly about binomial array.
- c) What are microstrip antenna and give its applications?
- d) Discuss about different form of linear arrays.
- e) What are space wave and surface wave?
- f) Discuss briefly about the shadowing effect of hills and building.

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