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BOARD DIPLOMA EXAMINATION, (C-14)

MARCH /APRIL-2019

DAEIE-SIXTH SEMESTER EXAMINATION

COMMUNICATION ENGINEERING

Time: 3 Hours

Max.Marks: 80

PART-A

10X3=30M

Instructions: 1) Answer **all** questions.
2) Each question carries **three** marks.
3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

- 1) Give the expression for Frequency modulation.
- 2) Compare SSB and DSB in any three aspects.
- 3) Draw the circuit of super heterodyne receiver.
- 4) Define Sensitivity.
- 5) State the principle of pulse modulation.
- 6) List any three application of PCM.
- 7) Write a short note on SIM card of cell phone.
- 8) State the basic principle of RADAR.
- 9) Define WAN.
- 10) State the need for VPN.

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PART-B

5X10=50M

Instructions : 1) Answer any **five** questions
2) Each question carries **ten** marks
3) Answer should be comprehensive and the criteria for valuation is the content but not the length of the answer.

- 11) Draw and explain the block diagram of AM generation using collector circuit.
- 12) Explain the FM generation using reactance tube method with a sketch.
- 13) (a) Draw the block diagram of Crystal receiver. 3M
(b) Draw and explain FM receiver circuit. 7M
- 14) Draw and explain the basic principle of AM detector.
- 15) Define the following terms and sketch the waveforms.
a) PAM B) PPM C) PWM d) PCM
- 16) a) Differentiate PPM and PAM. 5M
b) Explain CDMA 5M
- 17) Draw the block diagram and explain the working principle of receiver used in fibre optic communication system.
- 18) Write any two features of the following;
a) routers b) ISDN c) VSAT d) ATM e) Modem

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