

**4732**

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**MARCH/APRIL-2019**  
**DCME – SIXTH SEMESTER EXAMINATION**  
**MOBILE COMMUNICATIONS**

Time: 3 Hours ]

[Max. Marks : 80M

**PART-A****10x3=30M**

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

- 1) List any Three applications of mobile communication.
- 2) What is the need for protocol architecture?
- 3) Write a short note on new data service in GSM.
- 4) Define Handover.
- 5) Define Broadcasting systems.
- 6) Write a short note on GEO.
- 7) Write any three applications of Bluetooth technology.
- 8) Define picontes.
- 9) Define tunnelling.
- 10) List ant three fractures of 3G technology?.

\*

## PART-B

**5x10=50M**

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

- 11) Draw and explain simplified reference model? (3+7)
- 12) Explain GSM services. (10)
- 13) Explain GSM signalling protocols. (10)
- 14) (a) Write the applications of satellite system. (5+5)  
(b) Explain the need for cyclic repetition of data.
- 15) Explain Digital Audio Broadcasting(DAB). (10)
- 16) Explain Bluetooth protocol architecture with diagram. (3+7)
- 17) Explain the usage models of Bluetooth. (10)
- 18) (a) Explain DHCP. (5+5)  
(b) Write any five features of 4G technology.

\* \* \*

\*

\*