

**B. TECH. (CBCS - 2014 COURSE) SEM -VIII (E & TC ENGG.)
: SUMMER - 2018**

SUBJECT : SOFTWARE DEFINED RADIOS

Day : **Thursday**
Date : **07/06/2018**

S-2018-4725

Time : **02.30 PM TO 05.30 PM**
Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagram **WHEREVER** necessary.
 - 4) Assume suitable data, if necessary.
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Q. 1 What is software defined radio and its applications? (10)

OR

Which complexities occur in software defined radio projects? (10)

Q. 2 What are 3G RF performance requirements? (10)

OR

Explain ADC and DAC noise budget of SDR devices. (10)

Q. 3 Write a note on "Chameleon Reconfigurable Communications Processor". (10)

OR

Explain symbol rate and chip rate partitioning. (10)

Q. 4 What are major software architectural choices and explain hardware specific software architecture? (10)

OR

Write down software standards for software radio. (10)

Q. 5 Explain smart antenna architecture. (10)

OR

How software radio principles are applied to smart antenna system? (10)

Q. 6 Explain system architecture of low cost experimental software radio platform. (10)

OR

What are the application potentials of low cost experimental software radio platform? (10)

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