



II.FILL IN THE BLANKS:

11. Expand LNA = \_\_\_\_\_
  12. For series to parallel conversion ,  $R_p =$  \_\_\_\_\_
  13.  $Q =$  \_\_\_\_\_
  14. Reflection coefficient formula at the load \_\_\_\_\_
  15. Duplexer acts as a \_\_\_\_\_
  16. Skin depth  $d =$  \_\_\_\_\_
  17. Power MOSFET is a \_\_\_\_\_ device.
  18. Acronym for CMOS is \_\_\_\_\_
  19. List out major advantages of Integrated Circuit \_\_\_\_\_
  20. Thermal Noise is also called -----
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**SUB: RF IC (13A04804)**

**TIME: 20Min**

**Hall Ticket No:**

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**Date: 16-02-2018**

**Max Marks: 10M**

**Signature of Invigilator:**

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**I I- Choose the correct answer:**

11. MOSFET is also called [ ]  
a) JFET    b) CMOSFET    c) IGFET    d) NMOS
12. Time constant of a series R-L circuit is [ ]  
a) LR    b) L/R    c) R/L    d) -R/L
13. In order to tune a parallel resonant ckt to a lower frequency the C must be [ ]  
a). Increases    b) decreases    c) remains same    d) zero
14. Maximum power transfer theorem can be applied for [ ]  
a). Only to dc    b) only to ac    c) both    d) none
15. Field effect transistor has [ ]  
(a) large input impedance.    (b) large output impedance.  
(c) large power gain.    (d) large voltage gain.
16. Flicker noise is also called [ ]  
a) Pink noise    b) 1/f noise    c) a&b    d) none
17. In a complex impedance circuit maximum power transfers occurs when  $Z_L$  equal to [ ]  
a). Complex conjugate of source impedance    b) source impedance  
c) load impedance    d) none
18. Characteristic impedance  $Z_0$  of a lossless transmission line is [ ]  
a).  $Z_0 = \sqrt{L/C}$     b)  $Z_0 = \sqrt{C/L}$     c)  $Z_0 = \sqrt{LC}$     d)  $Z_0 = \sqrt{L/R}$
19. Condition for distortion less transmission line is [ ]  
a). LC = RC    b) LR = GC    c) LC = GR    d) none
20. For a lossy transmission line the locus of reflection coefficient on a SM chart is [ ]  
a). Straight line    b) spiral    c) circle    d) ellipse
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