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B.Sc. RNLKWC-/Sec-1T/22

2022

Pharmaceutical Chemistry

B.Sc. Third Semester End Examination - 2022

PAPER - SEC-1T

Full Marks : 20

Time : 1 hours

*The figures in the right-hand margin indicate marks.  
Candidates are required to give their answers in their own  
words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Group-A**

**Attempt any five from the following :**

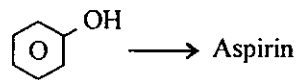
**5×2=10**

1. What is pro drug? Give one example.
2. Define Synthone(SN) and Synthetic equivalent (SE) with examples.

*(Turn Over)*

(2)

3. Convert the following.



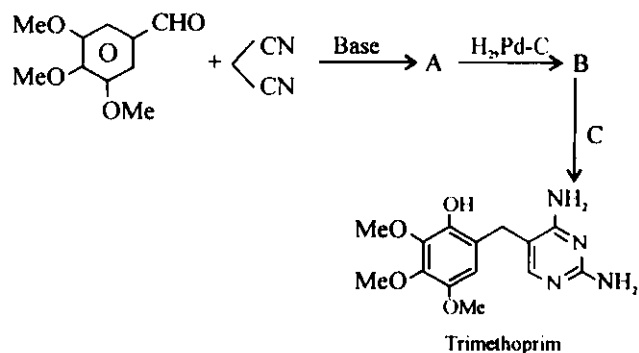
4. Write the name and structure of a CNS and cardiovascular drug.

5. What is the chemical name of paracetamol? Synthesize it from p-aminophenol.

6. Give the structure of Vitamin-C and its natural resource.

7. What is antiinflammatory agent.

8. Fill in the blank A, B & C.



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(Continued)

(3)

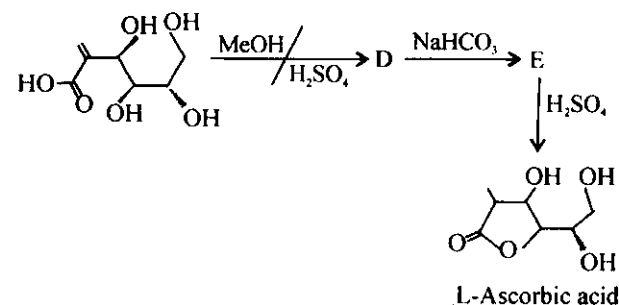
### Group - B

10. Answer any two from the following question.

a) Discuss the basic structural features of  $\beta$ -lactam antibiotics with a suitable example.

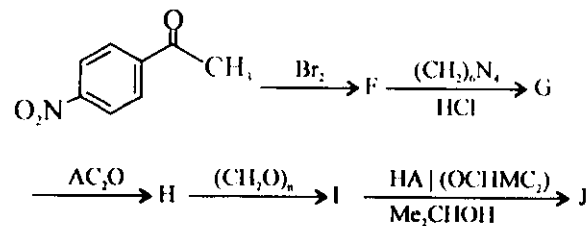
b) Fill the blank, D & E.

2+2+1



c) What mental is present in Vitamin B-12?

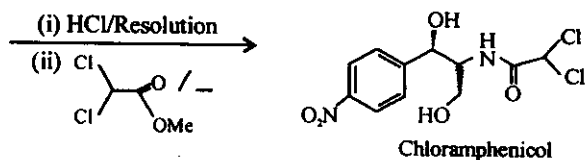
11. Fill in the blank from F to J.



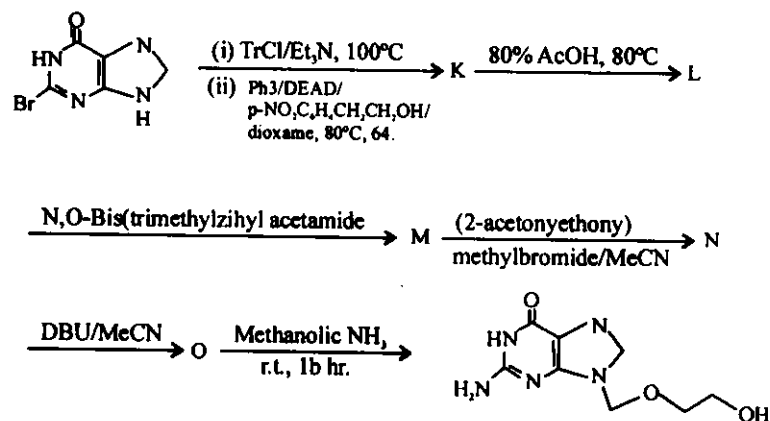
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(Turn Over)

( 4 )



12. Fill in the blank from K to



13. a) Synthesize phenobarbital from DEM.  
b) Illustrate the process of drug delivery methods.  
c) Give one example of antipyretic agent. 2+2+1