B. TECH. (CBCS - 2014 COURSE) SEM - VIII (PRODUCTION ENGG.) : SUMMER - 2018

SUBJECT: ELECTIVE – III: COMPUTER INTEGRATED MANUFACTURING

Day : **Saturday** | **S-2018-4711** | Time : **02.30 PM TO 05.30 PM**

Date : **09/06/2018** | 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.

Q. 1 Discuss in detail the elements of CIM. **(10)**

OR

Explain in detail the different types of manufacturing systems **(10)**

Q. 2 Discuss in detail the difference between sequential and concurrent engineering. **(10)**

OR

Explain in detail with neat sketch the product development cycle with the help of computers. **(10)**

Q. 3 Discuss the advantages of using DBMS in computer integrated manufacturing. **(10)**

OR

Discuss the requirements of computer integrated manufacturing in DBMS. **(10)**

Q. 4 Discuss in detail the role of computers in quality control. **(10)**

OR

Explain in detail the construction and working of co-ordinate measuring machine. **(10)**

Q. 5 Discuss in detail with neat sketch the various elements of robot. **(10)**

OR

Discuss in detail the adaptive control system as applicable to robots. **(10)**

Q. 6 Discuss in detail the functions of shop floor control. **(10)**

OR

Explain in detail the concept of MRP. **(10)**

* * * * *