

M. TECH.-I (MECHANICAL CAD/CAM) (CBCS – 2015 COURSE) :

WINTER - 2017

SUBJECT: PRODUCT DESIGN & DEVELOPMENT

Day : **Monday**
Date : **22/01/2018**

W-2017-2791

Time: **11.00 AM TO 02.00 PM**
Max Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the **SEPARATE** answer books.
- 4) Draw neat and labeled diagram **WHEREVER** necessary.
- 5) Use of non programmable calculator is **ALLOWED**.
- 6) Assume suitable data, if necessary.

SECTION - I

- Q.1** Explain design and development of product with suitable example. (10)
OR
- Q.1** Write short note on product development organization. (10)
- Q.2** Describe product planning process on identify opportunities. (10)
OR
- Q.2** Explain the relative importance of the needs and reflect on results and process. (10)
- Q.3** Discuss in details concept screening and concept scoring. (10)
OR
- Q.3** Explain the terms search externally and search internally. (10)

SECTION – II

- Q.4** Explain in details implication of architecture. (10)
OR
- Q.4** What is platform planning? Discuss in details. (10)
- Q.5** What are the basic prototyping? Discuss in details. (10)
OR
- Q.5** Explain the concept of cost reduction of component with suitable example. (10)
- Q.6** What is base line project planning and project execution? (10)
OR
- Q.6** Explain qualitative analysis with suitable example. (10)

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