AQ – 2770

Second Semester M. E. (Mech) (CAD/CAM) Examination

INDUSTRIAL PRODUCT DESIGN

2 MCC 4

P. Pages : 2

Time : Three Hours]   [Max. Marks : 80

Note : (1) Separate answer book must be used for each section in the subject Geology, Engineering material of civil branch and Separate answer book must be used for Section A and B in Pharmacy and Cosmetic Tech.
   (2) Answer **Three** questions from Section A and **Three** questions from Section B.
   (3) Due credit will be given to neatness and adequate dimensions.
   (4) Assume suitable data wherever necessary.
   (5) Illustrate your answer wherever necessary with the help of neat sketches.

SECTION A

1. (a) Distinguish between industrial design and engineering design by giving example of each.   7

   (b) What is meant by the functional material and visual requirements and how they guide the design process ?   7

2. (a) Distinguish between ferrous and non ferrous material. Give example of each.   7

   (b) Explain what is stainless steel.   6

3. (a) Explain cutting by separation and cutting by removal.   7

   (b) Disucss basic finishing processes.   6

4. (a) Describe some of the human factors associated with office design.   7

   (b) Suggest some common measures used to reduce noise in power tools and in the workplace.   6

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5. (a) What makes one computer more user friendly than other ?   7

    (b) What do you mean by visual requirement of a product ?   6

SECTION B

6. (a) Define "design for assembly". Describe its importance in design for manufacturing.   7

    (b) Enlist various guides to design for producibility.   7

7. (a) Explain the process offset lithography.   7

    (b) Describe the function, material and visual requirements as they pertain to graphic design.   6

8. (a) Define the terms product liability, negligence, warranty and strict liability.   6

    (b) List various requirements for a patentable invention.   7

9. (a) What is copyright ? What is the term of duration of copyright ?   7

    (b) Explain design for maintenance with the help of example.   6

10. Discuss various features of computer aided product design.   13

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