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POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

December, 2010

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : Answer *any five* questions. All questions carry equal marks. Draw Diagrams, charts, etc. Wherever needed.

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1. (a) Calculate the dose of drug for a child of 4 years, if the adult dose is 60 mg. 4
  - (b) Define the term dosage form. Why the drugs are needed to be given in dosage form ? 6
  2. (a) What are the advantages and disadvantages of Tablets. 4
  - (b) Discuss various additives used in the preparation of Tablets. 6
  3. (a) What is Sterilization ? List various methods of sterilization and discuss any one of them. 5
  - (b) Explain the vehicle and discuss any three other added substances required in the formulation of parenteral products. 5

4. (a) What is bioavailability ? 4  
(b) Explain the Pharmaceutical factors affecting absorption of drugs. 6
5. (a) What is an investigational drug ? 2  
(b) Explain the importance of Bioequivalence. 3  
(c) List the different phases of clinical trial and explain any two of them. 5
6. (a) What are monoclonal antibodies ? 4  
(b) What are different sources used for production of Recombinant biopharmaceutical products. 6
7. (a) What are the advantages and disadvantages of Functional foods ? 5  
(b) What do you understand by Probiotics ? 5  
Explain the uses and health benefits of Probiotics.
8. Write short notes on *any two* : 5x2=10  
(a) Skin colourants and Sunscreen preparations.  
(b) Nutraceuticals.  
(c) Medical Devices.
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