## ASTU M. Ph. 2nd 2.06-14 (Reg)

105	Total No. of printed pages = 4	
	PY134204	
	Roll No. of candidate	
	THE RESIDENCE OF THE PARTY OF T	
	2014	
-	(Even Semester)	
	ADVANCED INDUSTRIAL PHARMACY AND REGULATORY AFFAIRS	
	Full Marks-100 Pass Marks-35 Time-Three hours	
The figures in the margin indicate full mark for the questions.		
	1. Answer the following: $1 \times 10=10$	
	(a) Quaternary ammonium compounds are used in pharmaceutical dosage forms as	
	(b) is an example of a propellant.	
	(c) is abbreviated as GATT.	
	(d) is a film forming agent used in cosmetic preparations.	
	(e) is a water soluble colorant used in	

shampoos and soaps.

(f)	Rose oil is used as in a lotion and oil is used as flavouring agent in dental products.
(g)	In a face foundation, titanium oxide is used as
(h)	is an advantage of process validation.
(i)	Class 100 is described as
(j)	Retrospective validation is required for
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- 2. Answer any ten of the following:  $4\times10=40$ 
  - (a) Write short note on dental preparation.
  - (b) Give a brief account on quality control test of herbal cosmetic products.
  - (c) What do you mean by IPR? What are the different mechanisms for protection of intellectual property?
  - (d) What do you mean by copyright and tread secrets?
  - (e) Differentiate between the manufacturing of cold cream and vanishing cream.

- (f) Write short notes on TRIPS and TRIMPS.
- (g) Is "software" patentable in India? Justify answer with respect to US patent regulations.
- (h) Define humectants and opecifier with examples.
- (i) What is the significance and advantage of validation?
- (j) Justify the effect of organoleptic properties on product appeal.
- (k) Explain in details the ISO series.
- (1) Write a brief note on pharmaceutical packaging material and testing.
- 3. Answer any five of the following:  $10 \times 5 = 50$ 
  - (a) What are pharmaceutical preservatives?

    Classify preservatives and write a brief note on them with examples.
  - (b) (i) Explain the anatomy of skin with a neat diagram.
    - (ii) What are the different skin care products used? Describe the formulation and evaluation aspects of night massage creams.

- (c) What do you mean by aerosols? Give a summary on propellants with example. How an aerosol packaged system is used for cosmetic industry?
- (d) (i) What cannot be patented in India?
  - (ii) What do you mean by patent infringement? What are the penalties for violation of rules in such cases?
- (e) What like an invention should be to be patented? Describe the process of filing and granting of a patent.
- (f) What is GMP and cGMP? Explain the different aspects of GMP as per Schedule M.
- (g) What do you mean by validation of pharmaceutical process? What are the different types of validation? Explain in brief.

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