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DE—3—2018

FACULTY OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY

Pharm. D. (First Year) EXAMINATION

MARCH/APRIL, 2018

PHARMACEUTICS

(Monday, 23-4-2018)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—70

N.B. :- (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Answer to the point only.

(iv) Illustrate your answer with neat sketches wherever necessary.

1. Solve any *five* of the following : 5×2=10

(a) Define pharmacy.

(b) Enlist different methods of preparation of spirits.

(c) Write a short note on national formulary of India.

(d) Calculate the dose for a boy of 8 years when the adult dose of drug is 500 mg.

(e) Define powders and granules.

(f) What is meant by proof spirit ?

(g) Define the following with examples :

(i) Ear drops

(ii) Nasal drops.

2. Solve any *two* of the following : 2×6=12

(a) Define the term 'prescription'. Write in brief about superscription, inscription and subscription.

P.T.O.

- (b) Explain different factors which affects dose of drug.
- (c) Define and classify sterile dosage form.
3. Solve any *two* of the following : 2×6=12
- (a) Define the following terms :
- (i) Gargles
 - (ii) Mouth washes
 - (iii) Throat pain
 - (iv) Enemas
 - (v) Liniments
 - (vi) Lotions.
- (b) Write in brief about bulk powder ? For external use.
- (c) Calculate the volume of 95% alcohol required to prepare 400 ml of 45% alcohol (Alligation method).
4. Solve any *two* of the following : 2×6=12
- (a) Write briefly on Indian p'copoeia.
- (b) Find out the proportion of procaine hydrochloride which will yield a solution iso-osmotic with blood plasma. (Given : The freezing point of 1% W/V solution of procaine hydrochloride is -0.122°C).
- (c) Define emulsions. Give different methods of preparation of emulsions.
5. Solve any *two* of the following : 2×6=12
- (a) Discuss in brief development of profession of pharmacy.

- (b) Give advantages and disadvantages of suspensions.
 - (c) Define suppositories. Explain hot process/fusion method of suppositories.
6. Solve any *two* of the following : 2×6=12
- (a) Write a brief note on method or preparation of tinctures.
 - (b) Explain method of preparation of catgut.
 - (c) Define incompatibility. Explain therapeutic incompatibility.