



MAN-003-0047602 Seat No. \_\_\_\_\_

**B. Voc. (Sem. VI) (CBCS) Examination**

March / April - 2018

**BVPAQA - 602 : Medicinal Chemistry - II**

*(Pharmaceutical Engineering & QA)*

**Faculty Code : 003**

**Subject Code : 0047602**

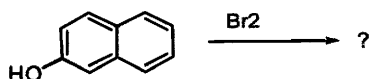
Time : 3 Hours]

[Total Marks : 70

- Instructions :** (1) All questions are compulsory and carry equal marks.  
(2) Draw diagram and/or scheme wherever necessary.

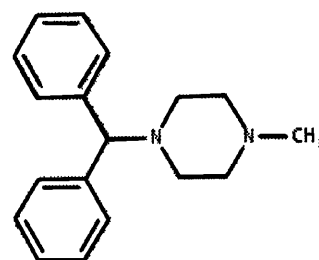
1 (A) Answer the following questions : 10

- (1) Define Anesthetics.
- (2) Write the IUPAC name of Isoflurane.
- (3) Give an example of local anesthetics.
- (4) Draw the structure of Prontosil.
- (5) What is the source of cocaine?
- (6) Mention the name of two anti-viral drugs?

(7) Complete the reaction : 

- (8) What is difference between antiviral drug and antibiotic drug?
- (9) Which receptor inhibits the biosynthesis of prostaglandin?

(10) Give the name of following drug.



(B) Answer the following questions : **20**

- (1) Draw the structure of Celecoxib and Valdecoxib.
- (2) Explain different characteristics of anesthetics.
- (3) Write the classification of sulpha drugs.
- (4) Write the uses of Marfanil.
- (5) Give classification of intravenous anesthetics.
- (6) What is histamine and how does anti-histamine drugs work?
- (7) Give the synthesis of chlorcyclizine.
- (8) Give the synthesis of naproxen.
- (9) Explain in brief: virus cycle.
- (10) Give the classification of antibiotics.

**2** Answer any 4 out of the following 6 questions : **20**

- (1) Classify general anesthetics. Write synthesis and application of Sevoflurane.
- (2) Describe synthesis, characteristics, and applications of Sulphathiazole.
- (3) Differentiate between gram positive and gram negative bacteria.
- (4) Explain the mode of action (MOA) and classification of antifungal drug.
- (5) Write synthesis and properties of Ketamine.
- (6) Describe synthesis, properties, and uses of Dibucaine.

**3** Answer any 4 out of the following 6 questions : **20**

- (1) Write only syntheses of: (a) Methohexital sodium and (b) Enflurane.
- (2) Write synthesis and properties of Sulphadiazine.
- (3) Describe synthesis, properties, and uses of diethyl ether.
- (4) Write only syntheses of: (a) Clotrimazole and (b) Miconazole.
- (5) Give the synthesis of Procaine from PABA and 2-chloro ethyl amino benzoate.
- (6) Give synthesis of (a) Isothiourea & (b) NN-dialkylsulfonamides from sulfonamides.