



MAP-007-001404 Seat No. _____

B. Sc. (Home Science) (Sem. IV) (CBCS) Examination

March / April - 2018

Basic & Applied Chemistry
(Old Course)

Faculty Code : 007

Subject Code : 001404

Time : 2 Hours]

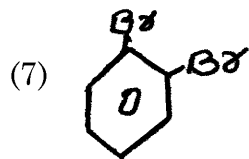
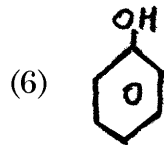
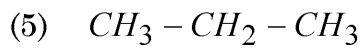
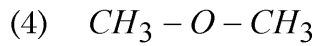
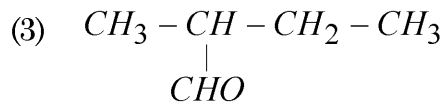
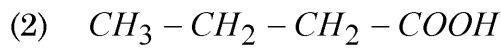
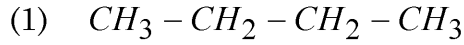
[Total Marks : 50

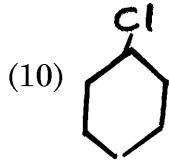
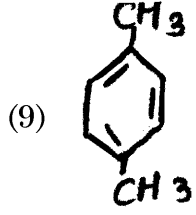
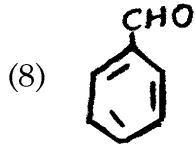
1 તત્ત્વ એટલે શું ? તત્ત્વ અને સંયોજન સમજાવો. 10

અથવા

1 એસિડ અને બેઈઝની જુદી જુદી વ્યાખ્યા આપી સમજાવો. 10

2 નીચેના IUPAC નામ આપો : 10





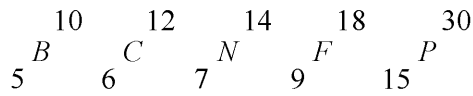
અથવા

2 ડીટરજન્ટ પાઉડર, ગોટી કે પ્રવાહીનાં વપરાતા પદાર્થો વર્ણવો. 10

3 ઔષધ શું છે ? પેરાસિટામોલ અને ક્લોરોક્વિન વિશે માહિતી આપો. 10

અથવા

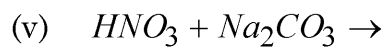
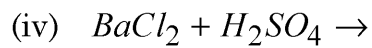
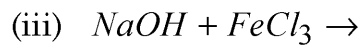
3 નીચેના તત્ત્વોની ઈલેક્ટ્રોન રચના આપો : 10



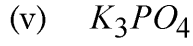
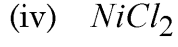
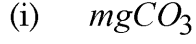
4 એસિડ-બેઈઝ તટસ્થીકરણ પ્રયોગ વર્ણવો. 10

અથવા

4 (અ) નીચેના સમીકરણો પૂરા કરો : 5



(બ) નીચેના સંયોજનના અણુભાર ગણો : 5



[પરમાણુ ભાર : H = 1, C = 12, N = 14, O = 16, Na = 23,
Mg = 24, P = 31, S = 32, Cl = 35.5, K = 39,
Ni = 57]

5 નીચેનામાંથી ચાર પૈકી કોઈ પણ બે ટૂંકનોંધ લખો : 10

(1) સમઘટકતા

(2) સમસ્થાનિકો

(3) હવા એ મિશ્રણ છે. – સમજાવો

(4) પ્રતિજૈવિક-પેનિસિલિન.

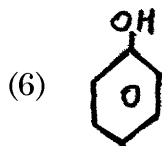
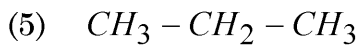
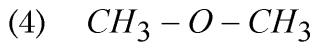
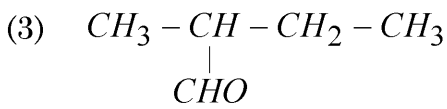
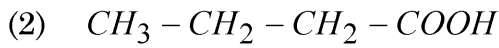
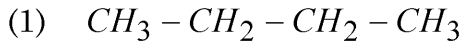
ENGLISH VERSION

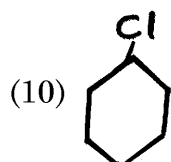
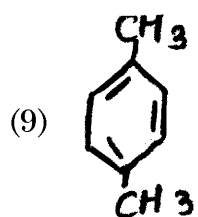
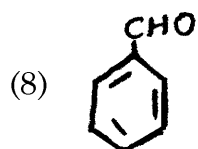
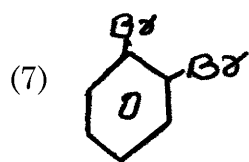
1 What is element ? Explain Element and compound. 10

OR

1 Explain acid and base with different definition 10

2 Give IUPAC name of the following : 10





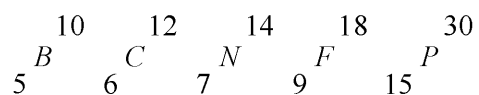
OR

2 Discuss ingredients necessary for detergent powder, cake and liquid. **10**

3 What is Drug ? Give information regarding Paracetamol and Chloroquine. **10**

OR

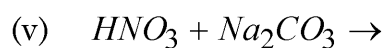
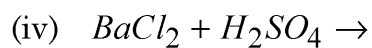
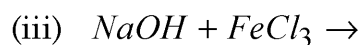
3 Give electronic configuration of the following : **10**



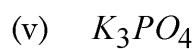
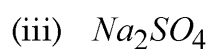
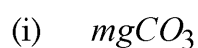
4 Describe Acid Base Neutralization Experiment. **10**

OR

4 (A) Complete the following equations : 5



(B) Calculate the molecular weight of following : 5



[Atomic Weight:

H = 1, C = 12, N = 14, O = 16, Na = 23,
Mg = 24, P = 31, S = 32, Cl = 35.5, K = 39,
Ni = 57]

5 Write Short notes : (Any **Two**) 10

- (1) Isomerism
 - (2) Isotopes
 - (3) Explain air is a mixture
 - (4) Antibiotics Penicillin.
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