17340

14115

3 Hours/100 Marks

Seat No. | | | | | | | | |

Instructions : *(1)* ***All*** *questions are* ***compulsory****.*
(2) Answer ***each*** *next* ***main*** *question on a* ***new*** *page.*
(3) ***Figures*** *to the* ***right*** *indicate full marks.*
(4) Mobile Phone, Pager and ***any other*** *Electronic Communication devices are* ***not*** *permissible in* ***Examination Hall.***

MARKS

1. Attempt **any 10** of the following : **20**

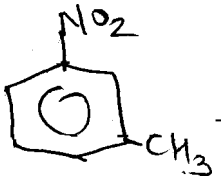
a) State characteristics of Aromatic compds. **2**

b) How is toluene prepared from benzene ? **2**

c)  $+ Cl_2 \xrightarrow{FeCl_3}$? + ? . **2**

d) Give two uses of Benzene sulphonic acids. **2**

e) What is the product obtained by reduction of nitrobenzene under acidic medium ? **2**

f)  $\xrightarrow{LiAlH_4}$? . **2**

m-nitro toluene.

g)  $\xrightarrow[Cr\ \ S_n/HCl]{H_2/Ni}$? . **2**

h) How Benzene diazonium chloride prepared in laboratory ? **2**

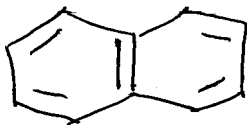
P.T.O.

MARKS

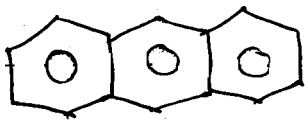
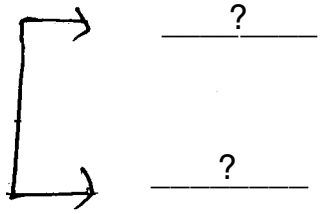
i) Write physical properties of phenol. **2**

j) Write uses of phenol. **2**

k) Write two physical properties of Benzoic acid. **2**

l)  $+ Br_2 \xrightarrow[\Delta]{CCl_4}$ ——?—— + ——?——. **2**

m) How naphthalene is prepared from coaltar ? **2**

n)  + Conc. H_2SO_4  **2**

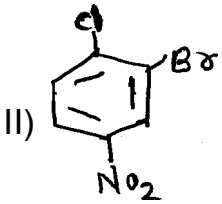
2. Attempt **any 4** of the following : **16**

a) What are main differences between aromatic and aliphatic compounds ? (any four). **4**

b) Write a short note on coaltar distillation. **4**

c) Name the following compds : **4**

I) 

II) 

d) Write four physical properties of Toluene. **4**

e) Write four uses of Benzene. **4**

f) Write four applications of chlorobenzene. **4**

3. Attempt **any 4** of the following : **16**

a) Write physical properties of chlorobenzene. **4**

b) Describe the method of preparation of benzene sulphonic acid by direct sulphonation. **4**

MARKS

c) Write four chemical properties of benzene sulphonic acids. **4**

d) Write the product and reaction of reduction of nitrobenzene under **4**
   I) alkaline medium
   II) neutral medium.

e) Write four uses of Aniline. **4**

f) State four chemical properties of Aniline. **4**

4. Attempt **any 4** of the following : **16**

a) Write four physical properties of Aniline. **4**

b) State four applications of benzene-diazonium chloride. **4**

c) Write four chemical properties of Benzene Diazonium Chloride. **4**

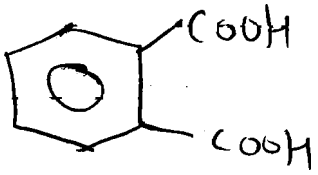
d) Write four physical properties of Benzene Diazonium Chloride. **4**

e) Give any two methods of preparation of phenol. **4**

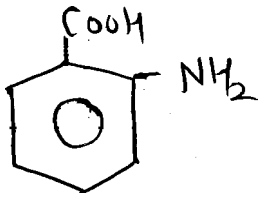
f) Write four chemical properties of phenol. **4**

5. Attempt **any 4** of the following : **16**

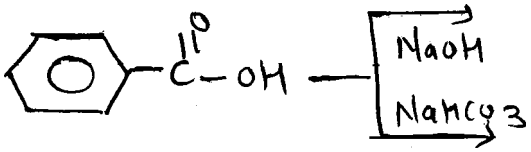
a) Name the following aromatic acids : **4**

I) 

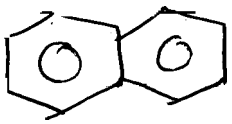
Phthalic acid.

II) 

b) Give preparation of Benzoic acid by any two methods. **4**

c) 

? **4**
?

d) I)  + HNO_3 $\xrightarrow[50^\circ C]{H_2SO_4}$? **4**

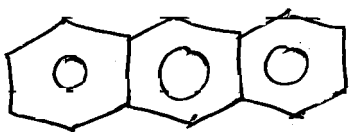
II)  $\xrightarrow[40^\circ C]{H_2SO_4}$?

MARKS

e) Write four uses of Naphthalene. **4**

f) How anthracene is prepared from phthalic anhydride. **4**

6. Attempt **any 4** of the following : **16**

a) I)  $\xrightarrow[CCl_4]{Br_2}$? .

$\xrightarrow[-HBr]{\Delta}$?

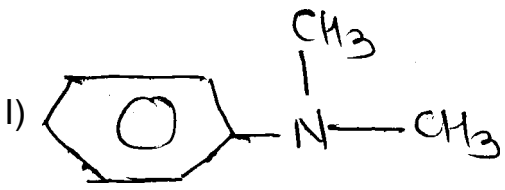
II)  $\xrightarrow[AC_2O]{HNO_3}$? .

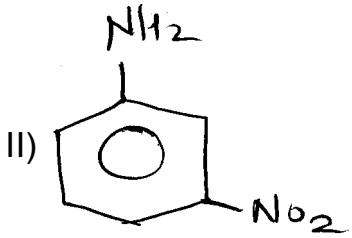
b) Write four physical properties of Anthracene. **4**

c) Draw resonating structures of Naphthalene and explain. **4**

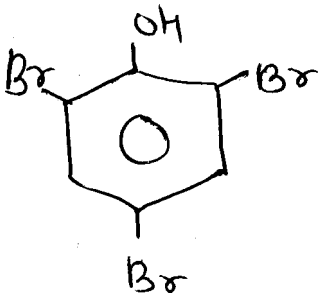
d) Write four physical properties of Benzene. **4**

e) Name the following compounds. **4**

I) 

II) 

f) Name the following compounds : **4**

I) 

II)