ANSWERS TO MULTPLE CHOICE QUESTIONS

(i) Ans: (a)

In methane, the hybridization of carbon atom is sp^3.

(ii) Ans: (d)

In t-butyl alcohol, the tertiary ca
atom because in tertiary but
attached with three methyl group

(iii) Ans: (c)

In sp^2 hybridization, the three sp^2 hybrid orbitals are in one plane and angle between them is 120°. So the shape of these three planer sp^2 hybrid orbitals is triangular.

iv) Ans: (c)

In 1828 the German chemis
urea from ammonium cyanate.

(v) Ans: (a)

In sp hybridization all atom lies in one plane and shape is linear with angle of 180°. Choice (a) is correct.

(vi) Ans: (b)

When two atoms share their ele
is called sigma bond and when
bond. So that in double bonde
other is pi-bond.

(vii) Ans: (c)

Ethers show the phenomenon of metamerism. Metamers are structural isomers in which a polyvalent atom is attached with different alkyl groups. So in ethers oxygen atom is linked with different alkyl groups to show metamerism.

(viii) Ans: (a)

Compounds in which one hydr
alkyl group are called alcoh
because it has –OH group.