Date ..... **Name** ..... **Group** .....

Instructions and lab report form for the practical lesson on biochemistry

Topic: **Isolation of DNA**

Task 1: Determination of blood group by hemagglutination test

Principle:

Results and conclusion:

Anti-A	Anti-B	Blood group

Task 2: Isolation of DNA from buccal smear using phenol-chloroform

Principle:

Task 3: Determination of concentration and purity of DNA

Principle:

Results:

A_{260}: A_{280}: A_{320}:

Purity of DNA:

Calculate the ratio $(A_{260} - A_{320}) / (A_{280} - A_{320})$.

$(A_{260} - A_{320}) / (A_{280} - A_{320})$ = ...

For pure DNA the ratio is 1.8.

Concentration of DNA:

Concentration of DNA can be estimated for the light path 0.5 mm as follows:

$w\ (\mu g/ml) = 20 \times 62.9 \times (A_{260} - A_{320}) - 20 \times 26 \times (A_{280} - A_{320})$

w (µg/ml) = ...……..... = ...µg/ml

Conclusion: