**Biostatistics /Report**

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**Question (1):**

**A: PCV and hemoglobin correlation:**

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| **Correlations** |
|  | PCV | Hb |
| PCV | Pearson Correlation | 1 | .673\*\* |
| Sig. (2-tailed) |  | .001 |
| N | 20 | 20 |
| Hb | Pearson Correlation | .673\*\* | 1 |
| Sig. (2-tailed) | .001 |  |
| N | 20 | 20 |
| \*\*. Correlation is significant at the 0.01 level (2-tailed). |

P value : is 0.001: less than 0.05, so the association is statistically significant.

**B: Hb and Age correlation**

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| **Correlations** |
|  | Hb | Age |
| Hb | Pearson Correlation | 1 | .880\*\* |
| Sig. (2-tailed) |  | .000 |
| N | 20 | 20 |
| Age | Pearson Correlation | .880\*\* | 1 |
| Sig. (2-tailed) | .000 |  |
| N | 20 | 20 |
| \*\*. Correlation is significant at the 0.01 level (2-tailed). |

P value : is 0.000: less than 0.05, so the association is statistically significant.

**Question (2):**

**Hb and PCV regression**

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| **Coefficientsa** |
| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
| B | Std. Error | Beta |
| 1 | (Constant) | 5.589 | 2.245 |  | 2.489 | .023 |
| PCV | .205 | .053 | .673 | 3.864 | .001 |
| a. Dependent Variable: Hb |

Hb= α + (0.205)PCV

P value : is 0.001: less than 0.05, the association is statistically significant.

**Question (3):**

**Hb, PCV and age multiple regression**

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| **Coefficientsa** |
| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
| B | Std. Error | Beta |
| 1 | (Constant) | 5.239 | 1.206 |  | 4.342 | .000 |
| PCV | .097 | .033 | .319 | 2.977 | .008 |
| Age | .110 | .016 | .723 | 6.742 | .000 |
| a. Dependent Variable: Hb |

Hb= α + (0.097) PCV + (0.110) age

P value for PCV : is 0.008: less than 0.05 so the association is statistically significant

P value for age : is 0.000: less than 0.05, the association is statistically significant as well