

**Rate List of Available Analytical Facilities at UAF
Central Hi-Tech Laboratory, University of Agriculture, Faisalabad**

| Specific Title of Test | Particulars of Tests | Rates (Rs)** | | |
|------------------------|---|--------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| Vitamins | C, E & B-Carotene | 2000/3500* | 2500/4000* | 9000 |
| Sugars | Glucose, Fructose & Sucrose | 2000/3500* | 2500/4000* | 9000 |
| Phenolic | Galic Acid, Vanillic Acid, Caffeic Acid, P-Cumeric Acid, M-Coumric Acid, Chlorogenic Acid, Syringic Acid, sinapic Acid & Cinacic Acid | 2000/3500* | 2500/4000* | 9000 |
| Flavonoid | Quercetin, Kaempferol | 2000/3500* | 2500/4000* | 9000 |
| Organic Acid | Pyruvic Acid, Citric Acid, Tartaric Acid, Oxalic Acid, Malic Acid, Fumaric Acid & Succinic acid | 2000/3500* | 2500/4000* | 7000 |
| Elemental Analysis | Ca, Cd, Co, Cu, Cr, Fe, Pb, Mg, Mn, Ni, Zn | 100 | 200 | 300 |
| | Sample Digestion | 500 | 600 | 700 |
| Volatile Compounds | Fatty acids & Essential Oils | 1500/2000 | 2000/3000* | 7000 |
| Ultracentrifugation | Upto-65000rpm | 600 | 800 | 1500 |
| Centrifugation | Upto-16000 rpm at -20 °C | 400 | 400 | 800 |
| Range (190-1100nm) | Phosphorus, Boran, Nucleic Acid etc. | 150 | 200 | 500 |
| Surface Morphology | 40X to 200,000 X magnification | 600 | 600 | 600 |

| | | | | |
|--|-----------------------------------|-----|-------|------|
| Electrical Conductivity in a Solution | EC & TDS | 50 | 100 | 200 |
| Osmolarity of Aqueous Samples | Osmotic pressure | 50 | 100 | 200 |
| Determine Acidity or Alkalinity | pH | 50 | 100 | 200 |
| Dissolved Oxygen Level in Solutions | Oxygen level | 50 | 100 | 200 |
| Refractive Index | Refractive index | 50 | 100 | 200 |
| Structural Analysis | 10X, 20X, 40X& 100X | 100 | 250 | 300 |
| Heating up to 1100 °C | Calcination | 200 | 300 | 400 |
| Granulation of Samples | Granulation | 500 | 1,000 | 1500 |
| Shaking of Solutions | Mix, Blend, or Agitate Substances | 100 | 150 | 200 |
| Soil, Food & Feed | Moisture | 300 | 350 | 500 |
| | Dry Matter | 300 | 350 | 500 |
| | Nitrogen % | 350 | 400 | 500 |
| | Protein | 350 | 400 | 500 |
| | Crude Fat | 400 | 500 | 600 |
| | Crude Fiber | 350 | 450 | 500 |
| | Ash | 300 | 350 | 400 |
| Cleaning of Objects Through Ultrasound | Cleaning Components & Tools | 50 | 100 | 150 |

*Rates for unprepared samples,

**Rates are excluding all applicable taxes

Faculty of Sciences, University of Agriculture, Faisalabad

• **Department of Biochemistry**

1. Molecular Care Laboratory

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|--------------------------|----------------------|--------------------|-------------------------|---------|
| | | UAF students/Staff | Students other than UAF | General |
| 1. HBV | Qualitative (qPCR) | 2000 | 3000 | 3000 |
| 2. HBV | Quantitative (qPCR) | 2500 | 3500 | 3500 |
| 3. HCV | Qualitative (qPCR) | 2000 | 3000 | 3000 |
| 4. HCV | Quantitative (qPCR) | 2500 | 3500 | 3500 |
| 5. HCV+HBV | Qualitative (qPCR) | 2500 | 3500 | 3500 |
| 6. HCV+HBV | Quantitative (qPCR) | 3500 | 4500 | 4500 |
| 7. HBsAg, | | 1200 | 1400 | 1400 |
| 8. HBeAg, | | 1200 | 1400 | 1400 |
| 9. HBeAb, | | 1200 | 1400 | 1400 |
| 10. HBcIgM | | 1200 | 1400 | 1400 |
| 11. HBc Total | | 1200 | 1400 | 1400 |
| 12. HBsb | | 1200 | 1400 | 1400 |
| 13. Anti-HCv | | 1200 | 1400 | 1400 |
| 14. HAV-AbIgG | | 1200 | 1400 | 1400 |
| 15. HAV-AbIgM | | 1200 | 1400 | 1400 |
| 16. HEV-AbIgM | | 1200 | 1400 | 1400 |
| 17. HEV-AbIgG | | 1200 | 1400 | 1400 |
| 18. HIV-Ab1&2 | | 1200 | 1400 | 1400 |
| 19. HbA1C | | 1200 | 1400 | 1400 |
| 20. Insulin | | 1800 | 2000 | 2000 |
| 21. c-Peptdes/protein | | 1800 | 2200 | 2200 |
| 22. 25-Hydroxy Vitamin D | | 1800 | 2200 | 2200 |
| 23. TFT | | 1800 | 2000 | 2000 |

| | | | | |
|-------------------------------------|--|------|------|------|
| 24. T3 | | 850 | 950 | 950 |
| 25. T4 | | 850 | 950 | 950 |
| 26. TSH | | 850 | 950 | 950 |
| 27. TFT (free T3&T4) | | 2000 | 2200 | 2200 |
| 28. FREE T3 | | 950 | 1150 | 1150 |
| 29. FREE T4 | | 950 | 1150 | 1150 |
| 30. LH | | 1300 | 1500 | 1500 |
| 31. FSH, | | 1300 | 1500 | 1500 |
| 32. Prolactin | | 1300 | 1500 | 1500 |
| 33. Testosterone | | 1300 | 1500 | 1500 |
| 34. Cortisol (a.m) | | 1100 | 1350 | 1350 |
| 35. Cortisol (p.m) | | 1100 | 1350 | 1350 |
| 36. AFP (alpha-feto protein) | | 1300 | 1500 | 1500 |
| 37. Beta -HCG | | 1100 | 1350 | 1350 |
| 38. CA-125 (Ovarian Cancer Antigen) | | 2000 | 2200 | 2200 |
| 39. PSA(Prostate Specific Antigen) | | 1300 | 1500 | 1500 |
| 40. Anti dsDNA | | 1300 | 1500 | 1500 |
| 41. Anti CCP | | 2200 | 2500 | 2500 |
| 42. ANA/ANF | | 1300 | 1700 | 1700 |
| 43. <i>S. Ferritin</i> | | 1200 | 1400 | 1400 |
| 44. <i>H. Pylori</i> IgG | | 1100 | 1350 | 1350 |
| 45. <i>H. Pylori</i> IgM | | 1100 | 1350 | 1350 |
| 46. IgE Total | | 1200 | 1500 | 1500 |
| 47. IgA | | 1100 | 1350 | 1350 |
| 48. IgM | | 1100 | 1350 | 1350 |
| 49. IgG | | 1100 | 1350 | 1350 |
| 50. Immunoglobins (IgA,IgG,IgM) | | 4000 | 4500 | 4500 |
| 51. Vitamin B-12 | | 1500 | 1700 | 1700 |

| | | | | |
|---|--|------|------|------|
| 52. CEA (Carcinoembryonic Antigen) | | 2300 | 2500 | 2500 |
| 53. CA-19.9 (Gastrointestinal cancer antigen) | | 2000 | 2250 | 2250 |
| 54. MycodotIgG | | 1400 | 1600 | 1600 |
| 55. MycodotigM | | 1400 | 1600 | 1600 |
| 56. TyphidotIgG | | 1400 | 1600 | 1600 |
| 57. TyphidotIgM | | 1400 | 1600 | 1600 |
| 58. Estradiol | | 1300 | 1500 | 1500 |
| 59. Progesterone | | 1300 | 1500 | 1500 |
| 60. C-3 | | 1100 | 1300 | 1300 |
| 61. C-4 | | 1100 | 1300 | 1300 |
| 62. RA.Factor | | 1000 | 1200 | 1200 |
| 63. Folic acid | | 1500 | 1700 | 1700 |
| 64. Anti-tTG IgA | | 1700 | 1900 | 1900 |
| 65. Anti-tTGIgG | | 1700 | 1900 | 1900 |
| 66. c-ANCA | | 2500 | 3000 | 3000 |
| 67. p-ANCA | | 2500 | 3000 | 3000 |
| 68. Dengue IgG | | 1400 | 1600 | 1600 |
| 69. Dengue IgM | | 1400 | 1600 | 1600 |
| 70. Anti-CardiolipinIgG | | 2700 | 3000 | 3000 |
| 71. Ant-CardiolipinIgM | | 2700 | 3000 | 3000 |
| 72. TIBC | | 1200 | 1400 | 1400 |
| 73. Anti-Gliadin IgA | | 2200 | 2400 | 2400 |
| 74. Anti-GliadinIgG | | 2200 | 2400 | 2400 |
| 75. Anti-phospholipids IgG | | 2000 | 2200 | 2200 |
| 76. Anti-phospholipids IgM | | 2000 | 2200 | 2200 |
| 77. Brucella test | | 2700 | 3000 | 3000 |

| | | | | |
|-----------------------------------|----------------------------|------|------|------|
| 78. TC-Ab (Anti-Thyroglobulin) | | 1300 | 1500 | 1500 |
| 79. Anti-TPO (thyroid-peroxidase) | | 1600 | 1800 | 1800 |
| 80. Toxoplasma IgG | | 1400 | 1600 | 1600 |
| 81. Toxoplasma IgM | | 1400 | 1600 | 1600 |
| 82. Rubella IgG | | 1400 | 1600 | 1600 |
| 83. Rubella IgM | | 1400 | 1600 | 1600 |
| 84. Herpes IgG | | 1500 | 1700 | 1700 |
| 85. Herpes IgM | | 1500 | 1700 | 1700 |
| 86. CMV (Cytomegalo virus) IgG | | 1350 | 1600 | 1600 |
| 87. CMV (Cytomegalo virus)IgM | | 1350 | 1600 | 1600 |
| 88. PCR analysis | Qualitative | 700 | 1000 | 1000 |
| 89. DNA isolation | Qualitative | 700 | 1000 | 1000 |
| 90. Birds Sexing | Qualitative | 750 | 1000 | 1000 |
| 91. Primer designing | 1 Set | 2000 | 3000 | 3000 |
| 92. Ultra-Centrifuge | Ultra-centrifuge | 50 | 100 | 100 |
| 93. DNA/RNA Concentrator | Per sample | 30 | 80 | 80 |
| 94. qPCR Analysis | Per sample with sybr green | 700 | 1000 | 1000 |

2. Medicinal Biochemistry Research Laboratory

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|------------------------|----------------------------------|--------------------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| | Biochemical parameters Like CAT, | 300/per sample/parameter | 500/per | 500/per |

| | | | | |
|----------------------|--|---|---|---|
| | POD, SOD, TSS, TSP etc. | | sample/parameter | sample/parameter |
| | Antibacterial | 500/per sample against two bacteria | 1000/per sample against two bacteria | 1000/per sample against two bacteria |
| | Biofilm inhibition and hydrolysis | 500/per sample against two microbial biofilms | 1000/per sample against two microbial biofilms | 1000/per sample against two microbial biofilms |
| | Antioxidant Assays DPPH, TPC, TFC only | 300/per sample per assay method | 500/per sample per assay method | 500/per sample per assay method |
| Toxicological Assays | 1. Hemolytic assay 2. Ames Assays | 300/per sample 3000/per sample for at least 5 sample | 500/per sample 5000/per sample for at least 5 sample | 500/per sample 5000/per sample for at least 5 sample |

Faculty of Agriculture, University of Agriculture, Faisalabad

• **Department of Plant Breeding & Genetics**

1. Wheat Laboratory

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|--------------------------|---|--------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| DNA Analysis | Amplification of particular segment of DNA, Detect presence/Absence of a gene, DNA profiling | 250 | 300 | 500 |
| Gene expression analysis | Real time expression of gene in particular sample, absolute and relative gene expression, KASP SNP analysis | 2000 | 2500 | 3000 |
| DNA/RNA Quantification | Quantification of DNA, RNA and protein, nutrient concentration in soil and plant samples, TAC(Total antioxidant capacity), Osmoprotectant analysis, Malondialdehyde (MDA) concentration | 100 | 150 | 200 |

2. Fodder Laboratory

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|------------------------|---|----------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| Feed Quality analysis | True protein in hay, silage,TMR, cotton seed cake and soybean flour | 100 per sample | 150 | 200 |

Rate for unprepared samples

Department of Agronomy , UAF

3. Seed Physiology Lab.

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|------------------------|---|--------------|-------------------------|-----------------|
| | | UAF students | Students other than UAF | General |
| Seed Analysis | Seed Purity , Seed Moisture Contents, Seed Germination Analysis | | | 1000/per sample |
| Accelerated Aging Test | Accelerated Aging Test | | | 1500/Per Sample |
| Seed Viability Test | Seed Viability Test | | | 2000/Per Sample |

• **Institute of Soil and Environmental Sciences (ISES)**

1. Environmental Bio-Geochemistry Lab

| Specific Title of Test | Particulars of Tests | Rates (Rs.) per sample | | |
|----------------------------------|----------------------|------------------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| 1. B-glucosidase enzyme activity | | 500 | 700 | 1000 |
| 2. Chitinase enzyme activity | | 500 | 700 | 1000 |
| 3. Phosphatase enzyme activity | | 500 | 700 | 1000 |
| 4. Leucineaminopeptidase | | 500 | 700 | 1000 |
| 5. Total Phosphorus (Soil) | | 100 | 200 | 300 |
| 6. Total Phosphorus (Plant) | | 100 | 200 | 300 |
| 7. Total Boron (Soil) | | 100 | 200 | 300 |

| | | | | |
|---|--|-----|-----|-----|
| 8. Total Boron (Plant) | | 100 | 200 | 300 |
| 9. Nitrate (Soil) | | 150 | 300 | 600 |
| 10. Total Nitrogen (Soil) | | 200 | 400 | 600 |
| 11. Total Nitrogen (Plant) | | 200 | 400 | 600 |
| 12. Total Potassium (Soil) | | 100 | 200 | 300 |
| 13. Total Potassium (Plant) | | 100 | 200 | 300 |
| 14. Total Sodium (Soil) | | 100 | 100 | 300 |
| 15. Total Sodium (Plant) | | 100 | 100 | 100 |
| 16. Sample Digestion | | 100 | 200 | 300 |
| 17. Dry Matter | | 200 | 300 | 500 |
| 18. Sample Digestion | | 100 | 200 | 400 |
| 19. TOC (Soil) | | 300 | 500 | 700 |
| 20. Soil microbial biomass carbon | | 200 | 400 | 600 |
| 21. Biological Oxygen Demand (BOD) | | 300 | 600 | 900 |
| 22. Chemical Oxygen Demand (COD) | | 300 | 600 | 900 |
| 23. Total Petroleum Hydrocarbon | | 100 | 200 | 300 |
| 24. EC | | 50 | 100 | 200 |
| 25. pH | | 50 | 100 | 200 |
| 26. SAR | | 100 | 200 | 400 |
| 27. Carbonates | | 50 | 100 | 200 |
| 28. Bi-carbonates | | 50 | 100 | 200 |
| 29. Texture | | 100 | 200 | 400 |
| 30. Soil aggregate fractionation (macro, meso, micro) | | 50 | 100 | 200 |

Faculty of Agricultural Engineering & Technology

- **Department of Energy System Engineering**
- 1. **Solar Energy Laboratory, ESE/PBI**

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|---|---|--------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| 1. Detection of underground metals and cables | To locate underground energized and de-energized wires, cables, and pipes | 1000 | 2000 | 3000 |
| 2. Photovoltaic system efficiency Analysis to ensure the quantity | For measuring the IV Curves of the photovoltaic, power Analysis | 3000 | 6000 | 10000 |
| 3. To determine hot spot images in PV, Machines | To find heat profile pattern | 300 | 500 | 1000 |
| 4. To determine the heat carrying capacity of various metals | To determine the rate of heat flow through metals | 1000 | 1500 | 2000 |
| 5. Determine the calorific value of fuels, biomass | To determine the heating values of biomass/solid/fuels | 2000 | 3000 | 4000 |
| 6. Biogas Analyzer | To determine the gas composition of biogas gas obtained through anaerobic digestion | 2000 | 2500 | 3000 |

2. Heat and Mass Transfer Laboratory, PBI

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|--|---|---------------------|--------------------------------|----------------|
| | | UAF students | Students other than UAF | General |
| 1. To determine the heat carrying capacity of various metals | To determine the rate of heat flow through metals | 1000 | 1500 | 2000 |
| 2. Determine the calorific value of fuels, biomass | To determine the heating values of biomass/solid/fuels | 2000 | 3000 | 4000 |
| 3. Biogas Analyzer | To determine the gas composition of biogas gas obtained through anaerobic digestion | 2000 | 2500 | 3000 |

- **Department of Irrigation and Drainage**

1. **Soil Mechanics and Hydrology Laboratory (Engineering Workshop)**

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|-----------------------------------|---|--------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| 1. Grain size analysis | Graduation fine and coarse particles, uniformly coefficient, coefficient of curvature | 200 | 300 | 500 |
| 2. Atterberg limits | Liquid limit of soil | 400 | 700 | 1000 |
| 3. Atterberg limits | Plastic limit of soil | 400 | 700 | 1000 |
| 4. Atterberg limits | Shrinkage limit of soil | 400 | 700 | 1000 |
| 5. Soil density (Compaction test) | Moisture content and density relationship | 700 | 1500 | 2000 |
| 6. Field density of soil | | 700 | 1500 | 2000 |
| 7. Specific gravity of soil | | 150 | 250 | 400 |
| 8. Moisture content of soil | | 150 | 300 | 500 |
| 9. Permeability of soil | Fine grain soil | 500 | 1000 | 1500 |
| 10. Permeability of soil | Coarse grain soil | 500 | 1000 | 1500 |

2. Water Quality Management Laboratory

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|---|--|--------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| 1. Electrical conductivity of water | EC of soil and water | 50 | 100 | 150 |
| 2. pH of water | pH of soil and water | 50 | 100 | 150 |
| 3. Total dissolve solid of water | TDS of water and soil | 50 | 100 | 150 |
| 4. Dissolved oxygen | Dissolve oxygen of water and soil | 200 | 300 | 500 |
| 5. SAR Ca, Mg | Ca, Mg of soil and water | 200 | 300 | 500 |
| 6. RSC CO ₃ . HCO ₃ | CO ₃ , HCO ₃ of water and soil | 200 | 300 | 500 |

• **Department of Fibre& Textile Technology**

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|---|----------------------|--------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| 1. Jute bag testing (Tensile strength of warp/weft/seam and Oil contents/concentration) | | | | 3500.00 |
| 2. Food Grade Testing of Jute Bag | | | | 6000.00 |
| 3. Cotton Trash content | | | | 500.00 |
| 4. Cotton Fibre HVI testing | | | | 500.00 |
| 5. Fibre Moisture content (Oven dry) | | | | 500.00 |
| 6. Yarn count (Linear density) by skein method | | | | 200.00 |
| 7. Tensile properties of single yarn/lea strength | | | | 400.00 |
| 8. Twist by contraction method | | | | 400.00 |
| 9. Fibre/ Fabric composition of Textiles (Quantitative) | | | | 600.00 |
| 10. Fabric GSM | | | | 200.00 |
| 11. Fabric Construction | | | | 200.00 |
| 12. Fabric tensile strength | | | | 500.00 |
| 13. Fabric seam strength | | | | 500.00 |
| 14. Fabric Thickness | | | | 200.00 |
| 15. Color fastness to washing | | | | 1200.00 |
| 16. Color fastness to perspiration | | | | 1200.00 |
| 17. Color fastness to rubbing | | | | 600.00 |
| 18. Seed bag testing (Non-woven) | | | | 1000.00 |

Faculty of Food, Nutrition and Home Sciences
1. National Institute of Food Science & Technology (NIFSAT)

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|------------------------|--|--|--|--|
| | | UAF students | Students other than UAF | General |
| | 1. Moisture content | 200/sample | 200/sample | 200/sample |
| | 2. Ash content | 200/sample | 200/sample | 200/sample |
| | 3. Crude fat | 800/sample | 800/sample | 800/sample |
| | 4. Specific gravity | 200/sample | 200/sample | 200/sample |
| | 5. pH analysis | 150/sample | 150/sample | 150/sample |
| | 6. Free fatty acid (FFA%) | 900/sample | 900/sample | 900/sample |
| | 7. Mineral Profile | Without wet digestion of samples: 200/sample/element With wet digestion of samples: 1000/sample/element | Without wet digestion of samples: 200/sample/element With wet digestion of samples: 1000/sample/element | Without wet digestion of samples: 200/sample/element With wet digestion of samples: 1000/sample/element |
| | 8. Gluten Test | 400/sample | 400/sample | 400/sample |
| | 9. Textural analysis | 1200/sample | 1200/sample | 1200/sample |
| | 10. Milk SNF | 200/sample | 200/sample | 200/sample |
| | 11. Milk fat | 600/sample | 600/sample | 600/sample |
| | 12. Milk analysis (Fat, Protein, Lactose, SNF) | 1000/sample | 1000/sample | 1000/sample |
| | 13. Milk acidity | 250/sample | 250/sample | 250/sample |
| | 14. Total plate count | 1200/sample | 1200/sample | 1200/sample |
| | 15. Mold and yeasts | 1200/sample | 1200/sample | 1200/sample |
| | 16. Total soluble solids | 200/sample | 200/sample | 200/sample |
| | 17. Extraction of pulp (mango and citrus) | 150/kg | 150/kg | 150/kg |

| | | | | |
|--|--|-----------------------|-----------------------|-----------------------|
| | 18. Water holding capacity | 500/sample | 500/sample | 500/sample |
| | 19. Tensile strength, Elongation young modules | 300/sample | 300/sample | 300/sample |
| | 20. Adulteration test in milk (starch, water, urea, formalin, soap) | 300/sample/adulterant | 300/sample/adulterant | 300/sample/adulterant |
| | 21. Adulteration test in Desi ghee (Vanaspati) | 300/sample | 300/sample | 300/sample |
| | 22. 1000 Kernel weight/test weight in wheat | 100/sample/adulterant | 100/sample | 100/sample |
| | 23. Adulteration test in Coffee (starch, chicory powder, coal tar dye) | 150/sample/adulterant | 150/sample/adulterant | 150/sample/adulterant |

Faculty of Veterinary Sciences, University of Agriculture, Faisalabad

• **Department of Parasitology**

1. Molecular Parasitology and One Health Laboratory

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|--|--|---------------------|--------------------------------|----------------|
| | | UAF students | Students other than UAF | General |
| PCR | PCR based confirmatory diagnosis of specific Babesia, Theileria, Anaplasma, or Rickettsia species for survey and proper treatment | 4000 | 5000 | 6000 |
| ELISA for detection of antibodies against Fasciola sp. | Screening of animals for Fasciola specific antibodies for screening and confirmatory diagnosis | 3000 | 3500 | 4500 |
| Taxonomy of arthropods of veterinary and public significance | Identification of arthropods that can directly damage to animal and human or transmit diseases in them to be used for their study or control | 400 | 500 | 700 |
| Skin scrapping for detection of mites | Identification of mites for diagnosis and treatment | 400 | 500 | 700 |

2. Epidemiology Laboratory

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|--|---|--------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| PCR based detection of Babesia, Theileria, Anaplasma, Trypanosoma, Leishmania, Toxoplasma from blood samples | PCR based confirmatory diagnosis of Babesia, Theileria, Anaplasma, Trypanosoma, Leishmania, Toxoplasma from blood samples | 2000 | 2500 | 3000 |
| PCR based detection of Giardia, Cryptosporidium, Balantidium, Cyclospora, Isospora, Entameoba, Enterocytozoon, Toxoplasma from fecal/stool samples | PCR confirmatory diagnosis of Giardia, Cryptosporidium, Balantidium, Cyclospora, Isospora, Entameoba, Enterocytozoon, Toxoplasma from fecal/stool samples | 2000 | 2500 | 3000 |
| Fecal examination | Identification of gastrointestinal parasites | 300 | 400 | 500 |
| Blood examination | Identification of blood parasites | 300 | 400 | 500 |

• **Department of Clinical Medicine and Surgery (CMS)**

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|-------------------------------------|--|--------------|-------------------------|---|
| | | UAF students | Students other than UAF | General |
| | Ambulatory services: (these services will be rendered to the owner lying within the jurisdiction of Faisalabad Corporation. Pick and drop to the doctor will be provided by the owner. In addition, owner will be responsible for providing medicine for the patient) | | | 500/- |
| Indoor Hospitalization Facility | <ol style="list-style-type: none"> 1. large Animal (Buffalo, cow, horse, donkey) 2. Small ruminants 3. Pets(dogs, cat, birds) | | | 50/- 20/- 10/- |
| Major Surgical Operations | <ol style="list-style-type: none"> 1. Hernioraph in Equines/Bovines/Camels 2. Castration in equines 3. Repair of fractures (open reduction) 4. C-section in large animals 5. Ovariecomy/Hysterectomy/ C-section in pets 6. Miscellaneous major operation in large & small animals | | | 500/- 500/- 300/- 500/- 500/- 300/- |
| Minor Surgical Operations/Procedure | <ol style="list-style-type: none"> 1. Health certificate for pets birds and animals 2. X-ray/ultrasonography/ECG 3. Repair of fractures (closed method) 4. Amputation of horn 5. Rectal prolapse 6. Urolithiasis (open surgery) 7. Dehorning/Disbudding 8. Enuclation (Lumpectomies) 9. Open teat surgery 10. Miscellaneous minor operation in small & large animals | | | 150/- 100/- 200/- 100/- 50/- 100/- 50/- 100/- 100/- 50/- |
| | Cosmetics Surgery in Pets (Tail docking, ear cropping, onychectomies) | | | 200/- |
| | Dental/Oral Surgery in pets | | | 500/- |

| | | | | |
|--------------------------|--|--|--|--|
| | Oxygen Therapy | | | 100/- |
| Laboratory Investigation | <ol style="list-style-type: none"> 1. Complete blood count (manual) 2. Mullein/Johnin/Tuberculin 3. Urinalysis (strip test) 4. Wet blood film/ Fecal Examination 5. Skin scrapping 6. Mastitis test (SFMT) 7. Antibiotics susceptibility testing (against 5 commonly use antibiotics) 8. Qualitative analysis of fodder for nitrate, nitrite and hydrocyanic acid. 9. Preparation of autogenous vaccine (2 doses) for mastitis and pyoderma in pets. 10. Field test for neonatal isoerythrolysis in foals. 11. Determination of failure of passive transfer of immunity in neonates. 12. Field test for liver Function 13. Outdoor vaccination services for pets and food animals | | | 50/- 25/- 50/- 20/- 20/- 10/- 250/- 30/- 300/- 50/- 50/- 50/- No nearly no loss no profit base |

• **Department of Pathology (Diagnostic Laboratory)**

| Specific Title of Test | Particulars of Tests | Rates (Rs.) |
|------------------------|--|---------------------|
| | | General |
| | 1. Post Mortem large animals (heifer, adult, cattle, buffalo, horse etc) | 750.00** |
| | 2. Post Mortem medium size animal (calf, sheep, goat, deer, pets etc) | 300.00** |
| | 3. Post Mortem lab animals (rabbits, mice, rats, guinea etc) | 150.00 |
| | 4. Post Mortem poultry (1-5 birds)/shed | 300.00 |
| | 5. Post Mortem pea fowl | 200.00 |
| | 6. Cage/pet fancy birds P.M. or consultancy | 200.00 |
| | 7. Histopathology (per tissue) | 700.00 |
| | 8. Complete blood count (CBC) | 300.00 |
| | 9. Blood smear for parasites | 100.00 |
| | 10. Urine routine examination (physical, sugar, protein, microscopy) | 200.00 |
| | 11. Fecal examination for parasites | 100.00 |
| | 12. Skin scrapping for parasites | 100.00 |
| | 13. HI antibody titers for ND (1-8 samples) | 800/150 per sample |
| | 14. HI antibody titers for AI H9 (1-8 samples) | 800/150 per sample |
| | 15. HI antibody titers for AI H5 (1-8 samples) | 1200/200 per sample |
| | 16. HI antibody titers for AI H7 (1-8 samples) | 1200/200 per sample |
| | 17. HI antibody titers for IB | 200.00 |

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|--|--|-----------------------|
| | 18. <i>Salmonella pullorum</i> plate test | 250.00 |
| | 19. MG Plate agglutination test | 300.00 |
| | 20. MS Plate agglutination test | 350.00 |
| | 21. Poultry farm visits (excluding travel cost) | |
| | Start to return time up to 4 hours | 1500.00 |
| | Start to return time up to 8 hours | 2500.00 |
| | 22. Culture sensitivity test (Per Plate) | 600.00 |
| | 23. Viable bacterial counts (water, feed, feed ingredients) | 300.00 |
| | 24. Hatch fluff test (viable count) | 600.00 |
| | 25. Environmental test for hatcheries (bacterial, fungal contamination test, swab testing) | 300.00 per plate used |
| | 26. Coliform count | 300.00 |
| | 27. Mallein test | 200.00 |
| | 28. Tuberculin test (minimum 10 animals; Transportation will be provided by farmer) | 500.00 |
| | 29. Brucella Rose Bengal test | 500.00 |
| | 30. Serum total proteins | 200.00 |
| | 31. Serum albumin | 200.00 |
| | 32. Blood urea/BUN test | 250.00 |
| | 33. Creatinine | 250.00 |
| | 34. Blood sugar/glucose test | 150.00 |
| | 35. SGOT (ALT) | 300.00 |
| | 36. SGPT (AST) | 300.00 |
| | 37. ALP | 300.00 |
| | 38. Ca | 150.00 |
| | 39. P | 150.00 |
| | 40. Na | 150.00 |
| | 41. K | 150.00 |
| | 42. Cl | 150.00 |
| | 43. Formalized liver homogenate (HPS autogenous vaccine) | 500.00 per 1000 dose |

| | | |
|--|---|---------|
| | 44. ELISA test for detection of antibodies against Infectious Bronchitis (IB) (Minimum 8 samples) Rs.300/samples | 400.00 |
| | 45. ELISA test for detection of antibodies against Infectious Bursal Disease (IBD) virus (Minimum 8 samples) Rs.300/samples | 400.00 |
| | 46. ELISA based Bovine Brucellosis diagnosis (minimum 8 samples) Rs.300/samples | 500.00 |
| | 47. ELISA based Bovine Tuberculosis diagnosis (minimum 8 samples) Rs.300/samples | 500.00 |
| | 48. PCR based diagnosis of chicken infectious Anemia Virus (CIAV) | 4500.00 |
| | 49. PCR based diagnosis of Infectious Laryngotracheitis (ILT) virus | 4500.00 |
| | 50. PCR based diagnosis of Bovine Brucellosis | 4500.00 |
| | 51. PCR based diagnosis of Marek's disease | 4500.00 |
| | 52. PCR based diagnosis of Avian Lymphoid Leukosis | 5000.00 |
| | 53. PCR based diagnosis of Fowl Adenovirus infection | 4500.00 |
| | 54. PCR based diagnosis of Avian Salmonellosis | 4500.00 |
| | 55. PCR based diagnosis of Bovine Tuberculosis | 4500.00 |
| | 56. PCR based diagnosis of Bovine Para Tuberculosis | 4500.00 |
| | 57. RT PCR based diagnosis of Infectious Bronchitis (IBV) | 5500.00 |
| | 58. PCR based diagnosis of Lumpy Skin Disease (LSD) | 4500.00 |
| | 59. PCR based diagnosis of Avian Psittacosis | 4500.00 |
| | 60. Multiplex PCR for diagnosis of Avian Influenza viruses (H5/H7/H9) | 7000.00 |
| | 61. PCR based diagnosis of Clostridial Disease of poultry | 4500.00 |

| | | |
|--|--|---------|
| | 62. PCR based diagnosis of Contagious Bovine Pleuropneumonia (CBPP) | 4500.00 |
| | 63. Mycotoxins analysis (Total Aflatoxins) | 7000.00 |
| | 64. Mycotoxins analysis (Aflatoxin B1) | 6000.00 |
| | 65. Mycotoxins analysis (Ochratoxins) | 6000.00 |
| | 66. Cholesterol | 100.00 |
| | 67. Triglycerides | 100.00 |

****These postmortem charges are waived off (Vide letter No. 07010/2511/B&F, dated 12-02-2019 for the animals owned by the University as per approval by the Departmental BOS.**

- **Department of Theriogenology**

| Specific Title of Test | Particulars of Tests | Rates (Rs.) |
|------------------------|--|-------------|
| | | General |
| | A. AT STATIONARY CLINIC | |
| | Operational/test/ services | |
| | 1. Cattle/buffalo Artificial insemination | 50 |
| | 2. Cattle/buffalos intrauterine infusion | 50 |
| | 3. Cattle / buffalo pregnancy diagnosis | 50 |
| | 4. Mare pregnancy diagnosis | 300 |
| | 5. Dog and cat gynecological examination | 500 |
| | 6. Cesarean section Cattle/buffalo | 5000 |
| | 7. Caesarean section mare | 7000 |
| | 8. Caesarean section cat and dog | 800 |
| | 9. Caesarean section small ruminants | 200 |
| | 10. Obstetrical case cattle/buffalos | 1500 |
| | 11. Obstetrical case mare | 2000 |
| | 12. Obstetrical case cat and dog | 500 |
| | 13. Obstetrical case small ruminants | 100 |
| | REPRODUCTIVE ULTRASOUND | |
| | 14. Cattle/buffalo (pregnancy and gynecological examination) | 300 |
| | 15. Sheep/goat (pregnancy and gynecological examination) | 100 |
| | 16. Mare and camel (pregnancy and gynecological examination) | 500 |
| | 17. Dog (pregnancy and gynecological examination) | 500 |
| | 18. Cat (pregnancy and gynecological examination) | 300 |
| | B. AMBULATORY SERVICES | |
| | 1. Cattle/buffalo artificial insemination | 300 |
| | 2. Cattle/buffalo pregnancy diagnosis | 200 |
| | 3. Cattle/buffalo intestine infusion | 500 |
| | 4. Mare pregnancy diagnosis | 1500 |

| | | |
|--|---|------|
| | 5. Obstetrical case mare | 5000 |
| | 6. Obstetrical case cattle/buffalo | 4000 |
| | REPRODUCTIVE ULTRASOUND | |
| | 7. Cattle/buffalo (pregnancy and gynecological examination) | 1000 |
| | 8. Sheep/goat (pregnancy and gynecological examination) | 500 |
| | 9. Mare and camel (pregnancy and gynecological examination) | 2000 |
| | 10. Dog/Cat (pregnancy and gynecological examination) | 1500 |
| | C. OTHER SERVICES | |
| | 1. Antibiotic sensitivity test in house cases | 200 |
| | 2. Antibiotic sensitivity test of ambulatory case | 500 |
| | 3. Antibiotic sensitivity test of sample submitted | 500 |
| | 4. Semen evaluation through CASA | 1000 |
| | 5. Semen collection from dog | 1000 |
| | 6. One dose of cattle/buffalo semen | 40 |
| | 7. One dose of camel semen | 400 |

Faculty of Animal Husbandry, University of Agriculture, Faisalabad

- **Institute of Animal and Dairy Sciences**

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|----------------------------------|----------------------|--------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| 1. Dry matter | | 200 | 300 | 500 |
| 2. Crude Protein | | 300 | 450 | 700 |
| 3. Crude fat/EE | | 300 | 450 | 700 |
| 4. Crude fiber | | 300 | 450 | 700 |
| 5. Total Ash | | 200 | 300 | 500 |
| 6. Nitrogen Free Extract (NFE) | | 50 | 75 | 100 |
| 7. True protein | | 400 | 600 | 750 |
| 8. Non Protein Nitrogen (NPN) | | 300 | 500 | 750 |
| 9. Neutral detergent fiber (NDF) | | 700 | 800 | 1000 |
| 10. Acid detergent fiber (ADF) | | 600 | 700 | 800 |
| 11. Hemi-cellulose | | 500 | 600 | 700 |
| 12. Cellulose | | 400 | 500 | 600 |
| 13. lignin | | 400 | 500 | 600 |
| 14. Silica AiA | | 450 | 600 | 700 |
| 15. Acid insoluble ash (AIA) | | 700 | 800 | 1000 |
| 16. Gross energy | | 2500 | 3000 | 4000 |
| 17. pH | | 100 | 200 | 300 |
| 18. Sodium | | 250 | 300 | 400 |
| 19. Potassium | | 250 | 300 | 400 |
| 20. Calcium | | 250 | 300 | 400 |
| 21. Magnesium | | 250 | 300 | 400 |
| 22. Phosphorous | | 600 | 700 | 850 |
| 23. Milk fat | | 100 | 150 | 250 |

| | | | | |
|---|--|-----|-----|-----|
| 24. Milk acidity | | 100 | 150 | 250 |
| 25. Milk specific gravity | | 50 | 100 | 250 |
| 26. Milk total solids | | 50 | 50 | 250 |
| 27. Milk protein | | 100 | 150 | 250 |
| 28. Milk lactose | | 100 | 150 | 250 |
| 29. Milk adulteration test (urea) | | 100 | 120 | 200 |
| 30. Milk adulteration test (Formaline) | | 100 | 100 | 150 |
| 31. Milk adulteration test (Sugar) | | 100 | 100 | 150 |
| 32. Milk adulteration test (Edible oil) | | 100 | 80 | 150 |
| 33. Mastitis detection test (surf field) | | 50 | 50 | 50 |
| 34. Mastitis detection test (Californian mastitis test) | | 100 | 100 | 120 |
| 35. Mastitis detection test (White side test) | | 75 | 75 | 100 |
| 36. Egg weight | | 50 | 100 | 150 |
| 37. Egg specific gravity | | 100 | 200 | 300 |
| 38. Dry shell weight | | 50 | 100 | 150 |
| 39. Shell breaking strength | | 100 | 200 | 300 |
| 40. Egg albumin height | | 100 | 200 | 300 |
| 41. Egg shell thickness | | 50 | 100 | 200 |
| 42. Yolk width | | 50 | 100 | 200 |
| 43. Yolk color | | 100 | 200 | 300 |
| 44. Blood and meat pots If any | | 50 | 100 | 200 |
| 45. Yolk %age | | 100 | 150 | 200 |
| 46. Albumin %age | | 100 | 150 | 200 |
| 47. Egg shape index | | 50 | 100 | 200 |
| 48. Haugh score value | | 100 | 200 | 300 |
| 49. Yolk index | | 100 | 200 | 300 |
| 50. Egg candling or egg fertility test | | 50 | 100 | 200 |
| 51. Debeaking | | 50 | 100 | 200 |

Centre of Agricultural Biochemistry and Biotechnology (CABB) (Not Corrected, No true information)

| Specific Title of Test | Particulars of Tests | Rate (Rs.) | | |
|----------------------------------|---|--------------|---|----------------------|
| | | UAF students | Students other than UAF | Private Organization |
| Diagnostic Services | Cotton, Tomato and Chilies | | 900/- per sample 700/- for more than 10 samples | |
| | Miscellaneous Crops | | 1000/- per sample 900/- for more than 10 samples | |
| | All type of Fungi from Plants process foods including yeast | | 500/- | |
| | Bacteria | | 500/- | |
| | Citrus Greening | | 800/- | |
| DNA Testing facility for Plants | Purity testing (Seed or Variety Purity) (Wheat, Cotton, Rice, Maize, Sunflower, Pulses) | | 1500/- | |
| | Hybrid Identification (Maize, Rice) | | 2000/- | |
| DNA Profiling Diversity analysis | Varietal Identification (Wheat, Rice, Maize, Sunflower, Pulses, Sugar Cane) | | 1800/- | |
| | Gender Screening (Date, Palm) | | 1800/- | |

Sub-Campus Toba Tek Singh, University of Agriculture, Faisalabad

Clinical Medicine & Surgery:

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|--|---|--------------|-------------------------|-----------------|
| | | UAF students | Students other than UAF | General |
| 1. | Out-door Registration Fee | | | Rs. 20/animal |
| 2. | Ambulatory Services | | | Rs. 200/animal |
| Major Surgical Operations | | | | |
| 3. | Herniorrhaphy in Equine, Bovine and Camel | | | Rs. 1500/Animal |
| 4. | Castration in Equine | | | Rs. 3000/Animal |
| 5. | Repair of fracture (open reduction) | | | Rs.1500/Animal |
| 6. | Cesarean Section in Large animals | | | Rs.3000/Animal |
| 7. | Ovariectomy/hysterectomy/C-section in Pets | | | Rs.1000/Animal |
| 8. | Miscellaneous major operations in large and small animals | | | Rs.500/Animal |
| Minor Surgical Operation/Procedures | | | | |
| 9. | Health certificates for pet birds and animals | | | Rs. 200/animal |
| 10. | X-rays/Ultrasonography/ECG | | | Rs. 500/animal |
| 11. | Repair of fractures (closed method) | | | Rs. 500/animal |
| 12. | Amputation of Horn | | | Rs. 300/animal |
| 13. | Rectal Prolapse | | | Rs. 300/animal |
| 14. | Urolithiasis (open surgery) | | | Rs. 300/animal |
| 15. | Dehorning/disbudding | | | Rs. 200/animal |
| 16. | Enucleation (Lumpectomies) | | | Rs. 300/animal |
| 17. | Open Teat Surgery | | | Rs. 300/animal |
| 18. | Miscellaneous minor operations in large and small animals | | | Rs. 300/animal |

Diagnostic Clinic: Sub-Campus Toba Tek Singh:

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|------------------------|---|--------------|-------------------------|---------|
| | | UAF students | Students other than UAF | General |
| 1. | Post mortem large animals (Heifer, adult, cattle, buffalo, horse etc) | | | 500 |
| 2. | Post mortem medium size animal (calf, sheep, goat, deer, pets etc) | | | 250 |
| 3. | Post mortem lab animals (rabbits, mice, rats, guinea etc) | | | 100 |
| 4. | Post mortem poultry (1-5 birds) | | | 200 |
| 5. | Post mortem pet Animals | | | 100 |
| 6. | Cage/pet fancy birds P.M. or consultancy | | | 100 |
| 7. | Histopathology (per tissue) | | | 500 |
| 8. | Complete blood count (CBC) | | | 300 |
| 9. | Blood smear for parasites | | | 50 |
| 10. | Urine routine examination (physical, sugar, protein, microscopy) | | | 100 |
| 11. | Fecal examination for parasites | | | 100 |
| 12. | Skin scrapping for parasites | | | 100 |
| 13. | ND HI antibody titers | | | 1000 |
| 14. | IBD HI antibody titer Test | | | 1000 |
| 15. | IB HI antibody titer Test | | | 1000 |

| | | | | |
|-----|--|--|--|------------|
| 16. | Antibiotic Sensitivity Test | | | 1000 |
| 17. | Surf Field Mastitis Test | | | 100 |
| 18. | Salmonella pullorum plate test | | | 250 |
| 19. | Autogenous Vaccine (HPS, IBH, Pox/1000 dose etc) | | | 500 |
| 20. | Ca, P, Na, K and Cl | | | 200 |
| 21. | ALP | | | 300 |
| 22. | MG Plate agglutination Test | | | 350 |
| 23. | MS Plate agglutination Test | | | 400 |
| 24. | Mallein test | | | 250 |
| 25. | Brucella Rose Bengal test | | | 200 |
| 26. | Serum total protein | | | 200 |
| 27. | Serum Albumin | | | 200 |
| 28. | Blood urea/BUN test | | | 200 |
| 29. | Creatinine | | | 300 |
| 30. | Blood Sugar Test | | | 200 |
| 31. | <i>SGOT (ALT)</i> | | | <i>300</i> |
| 32. | <i>SGPT (AST)</i> | | | <i>200</i> |

Theriogenological Cases: Sub-Campus Toba Tek Singh:

| Specific Title of Test | Particulars of Tests | Rates (Rs.) | | |
|--------------------------------|---|--------------|-------------------------|--------------------|
| | | UAF students | Students other than UAF | General |
| A. At Stationary Clinic | | | | |
| 1. | Cow, Buffalo, Sheep and Goat insemination, pregnancy test and intrauterine infusion | | | Rs. 200/animal/day |
| 2. | Mare pregnancy test and intrauterine infusion | | | Rs. 200/animal/day |
| 3. | Bitch and Queen pregnancy test (via Ultrasound) | | | Rs. 100/animal |
| 4. | Gynecological examination/bitch and Queen | | | Rs. 200/animal/day |
| 5. | Semen sale | | | Rs. 50/animal/day |
| Cesarean Section | | | | |
| 6. | Cow and Buffalo | | | Rs. 5,000/animal |
| 7. | Mare | | | Rs. 7,000/animal |
| 8. | Ewe and Goat | | | Rs. 500/animal |
| 9. | Bitch and Queen | | | Rs. 1,000/animal |
| 10. | Ovariohysterectomy (Bitch and Queen) | | | Rs. 1,000/animal |
| Other Obstetrical cases | | | | |
| 11. | Large animals | | | Rs. 1,500/animal |
| 12. | Small animals | | | Rs. 200/animal |
| 13. | Pet animals | | | Rs. 500/animal |
| B. Ambulatory Clinic | | | | |
| 14. | Cow and Buffalo insemination, pregnancy test and intrauterine infusion | | | Rs. 300/animal |
| 15. | Mare pregnancy test and intrauterine infusion | | | Rs. 300/animal |
| 16. | Obstetrical cases (Large animals) | | | Rs. 4,000/animal |
| 17. | Obstetrical cases (Small animals) | | | Rs. 500/animal |
| 18. | Obstetrical cases (Pet animals) | | | Rs. 1,000/animal |

| C. Sensitivity Test | | | | |
|----------------------------|-----------------------------|--|--|----------------|
| 19. | Clinical Cases | | | Rs. 200/animal |
| 20. | Referred Cases | | | Rs. 300/animal |
| 21. | Semen Evaluation (Referred) | | | Rs. 500/animal |