Test Name	Result	Unit	Refrence Range
Hb A1c % {According to (DCCT/ NGSP)}	5.1	%	
Mean of blood glucose (in the last 3 months)	99.67	mg/dl	

Comment:-
* Diagnosing diabetes : According to American Diabetes Association :
- Normal : less than 5.7%
- Prediabetes : 5.7% to 6.4%
- Diabetes : 6.5% or higher
* Therapeutic goals for glycemic control for diabetic patients :
- Goal of therapy (Controlled diabetic) : < 7.0%
- Uncontrolled Diabetic : > = 7 %
- Action suggested : > 8.0%
Care must be taken when interpreting any HbA1c result from patients having any cause of shortened erythrocyte survival . In these cases even analytically
correct results do not reflect the same level of glycemic control that would be expected

Test Name	Result	Unit	Refrence Range
CBC PARAMETERS : RN			
Hemoglobin	13.6	g/dL	11.5 - 15.2
Hematocrit	41.0	%	35 - 46
Red cell count	4.72	x10^6/ul	3.8 - 5.2
Red cell indices			
MCV	86.9	fL	77 - 97
MCH	28.9	pg	26 - 34
MCHC	33.3	g/dL	32 - 36
RDW	13.9	%	11.5 - 14.5
Total Leucocytic Count			
Total Leucocytic Count	5.4	x10^3/ul	3.5 - 11.2

	Percent Values			*Absolute Values*		
Basophils count	1.4	%	0 - 1.5	0.10	x10^3/ul	0 - 0.15
Eosinophils count	6.7	%	0.4 - 8	0.40	x10^3/ul	0 - 0.5
Neutrophils count	37.2 *L*	%	40 - 75	2.00	x10^3/ul	2 - 7
Lymphocytes count	47.6	%	20 - 50	2.60	x10^3/ul	1 - 4
Monocytes count	7.1	%	3 - 10.9	0.40	x10^3/ul	0.2 - 1

PLATELET COUNT			
Platelet Count	316	x10^3/ul	150 - 450

Chemistry Unit

Test Name	Result	Unit	Refrence Range
Fasting blood sugar	76.0	mg/dl	*Normal:75 - 100 mg/dl* *Prediabetes:100 - 125 mg/dl* *Diabetes:126 mg/dl or higher*
Serum Total Cholesterol	200	mg/dl	*Desirable:* *<200 mg/dL* *Borderline High:* *200–239 mg/dL* *High:* *≥240 mg/dL*
Serum Triglycerides (TG)	85.55	mg/dL	*Normal:* *<150 mg/dL* *Borderline High:* *150–199 mg/dL* *High:* *200–499 mg/dL* *Very High:* *≥500 mg/dL*
HDL Cholesterol	54.67	mg/dL	*Normal: ≥40.0 mg/dL*
LDL Cholesterol	138.75	mg/dl	*Optimal:* *<100 mg/dL* *Near to above Optimal:* *100–129 mg/dL* *Borderline High:* *130-159 mg/dL* *High:* *160–189 mg/dL* *Very High:* *≥190mg/dL*
Urea in Serum	13.91 *L*	mg/dL	*15 - 45*

Creatinine in Serum	0.70	mg/dl	*0.52 - 1.3*
Uric Acid	3.4	mg/dL	*2.6 - 6.5*
Sodium (Na) in Plasma	139.80	mmol/L	*135 - 145*
Potassium (K) in Plasma	4.21	mmol/L	*3.5 - 5.5*
Chloride in Plasma	105.60	mmol/L	*95 - 115*
Alanine Aminotransferase (ALT)	18.23	U/L	*5 - 55*
Aspartate Aminotransferase (AST)	19.82	U/L	*5 - 48*
Alkaline Phosphatase	60.05	U/L	*15 - 211*
Gamma Glutamyl Transferase (GGT)	20.6	U/L	*1 - 55*
Total Protein in Plasma	7.32	g/dl	*5.5 - 8.3*
Albumin in Plasma	4.40	g/dl	*3.5 - 5*
Calcium (Total)	9.63	mg/dl	*8.5 - 10.8*
Iron (Fe)	126.94	ug/dl	*37 - 185*
Total Iron Binding Capacity (TIBC)	370.90	ug/dl	*228 - 428*
(unsaturated iron-binding capacity) UIBC	243.96	ug/dl	*112 - 347*
Ferritin In Serum	27.6	ng/mL	*7 - 227*
Transferrin Saturation Ratio	34.225	%	*15 - 50*
Magnesium (Mg)	1.80	mg/dL	*1.6 - 2.6*

Phosphorus (P)	3.33	mg/dL	*2.5 - 5.5*
Zinc in Plasma	71.00	ug/dl	*46 - 150*
AST/ALT Ratio	1.1		*AST:ALT ratio <2*
Total cholesterol / HDL Ratio	3.66	mg/dl	*Ideal: under 3.5* *Good: under 5.0* *Bad: over 5.0*
TG / HDL Ratio	1.56	mg/dl	*ideal: 2.0 or less* *good: 4.0 to 6.0* *bad: over 6.0 or above*
LDL / HDL Ratio	2.54	mg/dl	*ideal: under 2.0* *good: under 5.0* *bad: over 5.0*
Non-HDL Cholesterol	145.33	mg/dl	*<130*
Very Low Density Lipoprotein (VLDL)	16	mg/dl	*2 - 30*
HOMA-IR	1.2		*0.5 - 1.4*
Healthy Range: 1.0 (0.5–1.4) Less than 1.0 means you are insulin-sensitive which is optimal. Above 1.9 indicates early insulin resistance. Above 2.9 indicates significant insulin resistance.			
Copper in Plasma	94.00	ug/dl	*42 - 192*
Thyroid Stimulating Hormone (TSH)	1.86	uIU/mL	*0.3 - 5.4*
A/G Ratio	1.5	g/dL	*Normal Ratio : 1.1 - 3.5*
Globulin	2.92	g/dl	*1.5 - 3.5*

Vitamin B12	318		pg/mL	*180 - 1100*
Vitamin D (25 OH-Vit D -Total)	10.80	*L*	ng/mL	*Deficient : <20 ng/mL* *Insufficient: 20–<30 ng/mL* *Sufficient :30–100 ng/mL*
Insulin Level	6.2		uIU/mL	*1.3 - 23*
Estimated Glomerular Filtration Rate (eGFR)	127		ml/min/1.73 m²	*A GFR of 60 or higher is in the normal range. A GFR below 60 may mean kidney disease.*