DMLT/DMRT EXAMINATION BOARD, ODISHA

SECOND DMLT ANNUAL EXAMINATION -2020

QUESTIONS (BIOCHEMISTRY; PAPER-III)

Full marks= 60 **Time: 3hrs**

Answer all questions

Q I Fill in the blanks (any five) **(1 X 5=5)**

1. The biological reference range of glycated hemoglobin (HbA1C) is less than _____.
2. The level of free acid _____ in Zollinger Ellison Syndrome.
3. The normal range of serum Urea is_____ and serum Creatinine is_____.
4. Estimation of _____enzyme in the serum and _____ test in the urine detects obstructive liver disease.
5. The reverse cholesterol transport is associated with_____lipoprotein.
6. The normal range of free acid and total acid in the resting gastric juice is_____.
7. Alcoholic liver disease is detected by estimation of serum_____.

Q II Answer the following in detail (any 5). **(8 X 5=40)**

1. State the normal fasting and post prandial blood glucose level. Mention the hormones regulating the blood glucose level. Write the procedure for estimation of blood sugar by an enzymatic method.
2. Name the lipoproteins. Write the normal reference range of serum lipoproteins. Describe the process of estimating serum cholesterol.
3. Describe liver function test
4. Describe the tests conducted to detect thyroid function.
5. Describe the tests done to estimate renal function.
6. Name the serum electrolytes. Describe the methods of estimation of electrolytes in serum.
7. Describe the various tests conducted to assess the

Q III Write short notes on the following (any five) **(3X 5=15)**

1. Enzymatic and non-enzymatic methods of estimation of serum creatinine.
2. Urinary microalbuminuria
3. Mention the normal level of serum Calcium and write its biological importance.
4. Write the causes of hyponatremia.
5. Describe the methods used for estimation of serum creatinine in a 20 year old male person. Mention the factors affecting the test procedure.
6. Describe the tests to detect ketonuria.