4TH module Enzyme & Vitamin test FIRST YEAR MBBS

Total marks:	70
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Time Allowed: 2.5 HOURS

Q1: A chronic alcoholic 70 yrs old man was brought to emergency by his n neighbor in semiconscious state. On laboratory investigations he was diagnosed as a case of Wernicke-Korsakoff syndrome.

- a. This syndrome is due to deficiency of which vitamin? (2.5)
- b. What is the active co-enzyme form of this vitamin. (2.5)
- c. What is the biochemical role of this vitamin. (5)
- Q2: compare the following: a. Rickets, (3.5)
 - b. Osteomalasia (3.5)
 - c. Osteoporosis (3)
- Q3: What are sources of VIT-A. what is the role of this Vitamin in Vision. (2.5)
 - a. Draw visual cycle (5)
 - b. Write other Clinical manifestation of vitamin A deficiency (2.5)
- Q4: A 2 year old male was brought to peads-OPD with presentation of bowed legs, frontal bossing & delayed tooth eruption. On examination child was pale looking his anterior fontanels was wide open & his wrist joints were wide.
 - a. What is the most possible diagnosis.

(2.5)

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- b. Give biochemical reasons for bowed legs & delayed tooth eruption. In this child. (2.5)
- c. Endogenous synthesis and activation of vit d and activation of calcium absorption from gut.
- Q5: A female patient with complain of lethargy malaise and myalgia. Also have symptoms of on/off bleeding gums & bruising on arms and buttocks. She also complain of emotional change and sleep pattern.
 - a. Diagnosis (2.5)
 - **b.** Causes (2.5)
 - c. Complications and treatment (5)
- Q6: a. What is importance of serum enzymes diagnosis in clinical biochemistry (1)
 - b. Describe significance of ALT, amylase, LDH. Alkaline phosphates enzymes (4)
 - c. Write name and therapeutic use of some enzymes .(5)
- Q7: A female baby born via normal vaginal delivery. She didn't received any vaccine or prophylaxis at birth. She was discharged. At 14 day baby developed severe bleeding at umbilical stemp
 - **a.** What is diagnosis and other important clinical manifestation in its deficiency. (5)
 - b. Describe deficiency of vitamin in response to 3D's, what is 3D's. (5)