



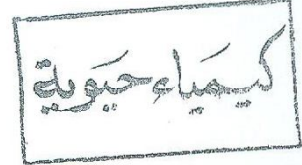
Biochemistry & Molecular Biology Exam
Second Year, Final Exam
May, 20th, 2015
Time Allowed: 2 hours (50 marks)



I. Mention (only names):

(9 marks)

1. Two stimuli for insulin secretion.
2. Two amino acids that cannot be transaminated.
3. Two enzymes that require ATP during urea formation.
4. Two amino acids formed from serine.
5. Two enzymes that require Cu^{2+} in tyrosine metabolism.
6. Two hormones formed from tryptophan.
7. Two inhibitors of HMG-CoA reductase enzyme.
8. Two markers that are elevated early in myocardial infarction.
9. Two inhibitors of isocitrate dehydrogenase.



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II. On biochemical bases explain the following:

(21 marks)

1. Low vitamin D level may predispose to type II diabetes mellitus.
2. The exposure to light leads to skin damage and scarring in porphyria.
3. Gout is worsen by alcohol intake.
4. Diabetes mellitus can benefit from moderate exercise.
5. Megaloblastic anemia is treated with folate and vitamin B₁₂.
6. Dark adaptation time.
7. Singulair is used to treat bronchial asthma and allergies.

III. Give a short account of:

(20 marks)

1. Liver function tests related to protein metabolism.
2. Hepatocellular jaundice.
3. Atherosclerosis.
4. Cystinuria.

***** Good Luck *****

Assist. Prof. Dr. Amr Zahra