

銘傳大學 100 學年度研究所碩士班招生考試

生物科技學系碩士班

第三節

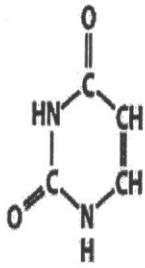
生物化學試題

(第 1 頁共 2 頁) (限用答案本作答)

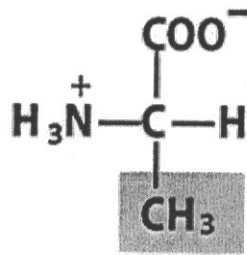
可使用計算機  不可使用計算機

A. Please write down the name of the chemical structure in English: 3% X 10

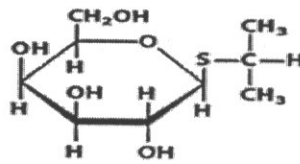
A1:



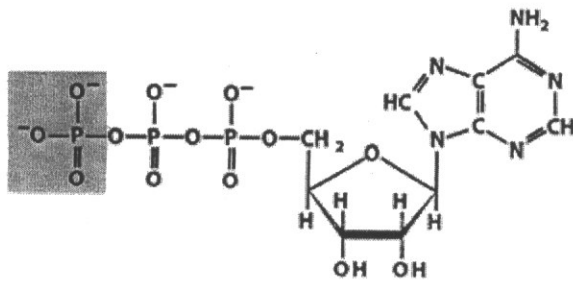
A2:



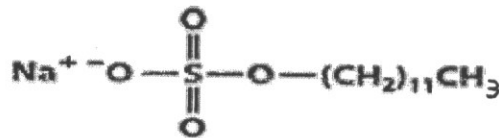
A3:



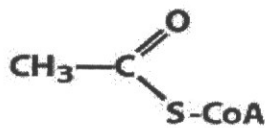
A4:



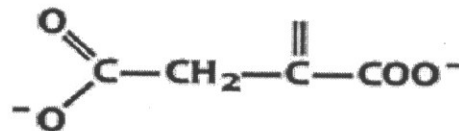
A5:



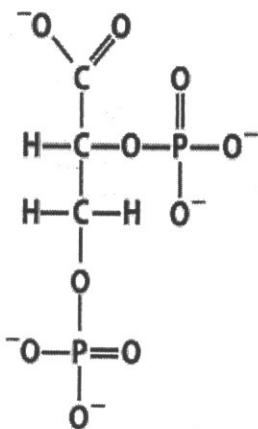
A6:



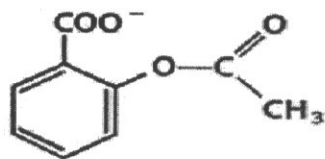
A7:



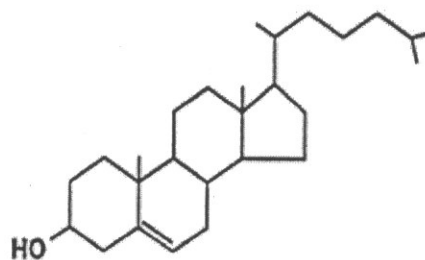
A8:



A9:



A10:



本試題兩面印刷

銘傳大學 100 學年度研究所碩士班招生考試

生物科技學系碩士班

第三節

生物化學試題

(第 2 頁共 2 頁) (限用答案本作答)

可使用計算機  不可使用計算機

B. Terms: 4% X 5

B1: the SOS response, B2: catalytic triad, B3: reciprocal control

B4: anaplerotic reactions, B5: K system

C. Questions: 50%

C1: Please describe the ubiquitin-proteasome system for the protein degradation.(10%)

C2: Describe briefly the relationship between chromatin structure and transcription in eukaryotes. (5%)

C3: Describe the mechanism for moving acetyl-CoA produced in the mitochondrial matrix into the cytosol for fatty acid synthesis.(5%)

C4: What properties of antibodies make them useful biochemical reagents?

Describe one biochemical application of antibodies.(10%)

C: Define topoisomerase, and explain the difference between type I and type II topoisomerases. (10%)

C6: Describe all of the known catalytic activities of reverse transcriptase. (6%)

C7: Describe the differences between a proteoglycan and a glycoprotein. (4%)

本試題兩面印刷

試題完