



LIFE SCIENCES
Paper – III

1. Which of the following can give a buffer solution ?
 - (A) $\text{CH}_3\text{COOH} + \text{CH}_3\text{COONa}$
 - (B) $\text{H}_2\text{SO}_4 + \text{Na}_2\text{SO}_4$
 - (C) $\text{HCl} + \text{NaCl}$
 - (D) $\text{HCl} + \text{NaOH}$
2. What will happen if strict anaerobic microorganisms are exposed to oxygen gas ?
 - (A) Growth rate of microorganisms will be enhanced
 - (B) Growth rate of microorganisms will be normal as before
 - (C) Growth rate will be zero, but cell size increases
 - (D) Microorganisms will die
3. A new antibiotic was discovered which strongly inhibited mRNA precursor transcripts and snRNA transcripts. This antibiotic is predicted to be an inhibitor of
 - (A) RNA polymerase I
 - (B) RNA polymerase II
 - (C) RNA polymerase III
 - (D) Helicase
4. An endocrine hormone may be differentiated from paracrine hormone by
 - I. Type of receptor it reacts with
 - II. Concentration synthesized
 - III. Mechanism of action
 - IV. Half life of hormone
 - (A) I and II are correct
 - (B) II and III are correct
 - (C) II and IV are correct
 - (D) I and III are correct
5. Acrosome reaction in sperms is initiated with
 - (A) Capacitation
 - (B) Fertilizin
 - (C) Influx of Na^+ in sperm
 - (D) Release of Lysins
6. Which of the following is an example to flavomolybdo catalytic protein ?
 - (A) Nitrate reductase
 - (B) Nitrite reductase
 - (C) Glutamine synthetase
 - (D) Glutamine-2-oxoglutarate aminotransferase

2014 Life Sciences Exemplar

Rachel S Tattersall



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Enjoying the Beat of Phrase: An Emotional Symphony within **2014 Life Sciences Exemplar**

In a world consumed by displays and the ceaseless chatter of fast communication, the melodic elegance and emotional symphony created by the published word usually disappear into the background, eclipsed by the relentless sound and disruptions that permeate our lives. Nevertheless, situated within the pages of **2014 Life Sciences Exemplar** a charming fictional prize full of natural emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this interesting masterpiece conducts viewers on a psychological trip, well unraveling the concealed tunes and profound influence resonating within each cautiously crafted phrase. Within the depths with this poignant evaluation, we will explore the book's central harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers' souls.

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