

PAPER - I

Note : This paper consists of Fifty (50) objective type questions of Two (2) marks each. All questions are compulsory.

50 Q x 2 M = 100 Marks

1. Which of the following set of statements best describes the nature and objectives of teaching ? Indicate your answer by selecting from the code.

- (a) Teaching and learning are integrally related.
- (b) There is no difference between teaching and training.
- (c) Concern of all teaching is to ensure some kind of transformation in students.
- (d) All good teaching is formal in nature.
- (e) A teacher is a senior person.
- (f) Teaching is a social act whereas learning is a personal act.

Code :

- (1) (a), (b) and (d)
- (2) (b), (c) and (e)
- (3) (a), (c) and (f)
- (4) (d), (e) and (f)

2. Which of the following learner characteristics is highly related to effectiveness of teaching ?

- (1) Prior experience of the learner
- (2) Educational status of the parents of the learner
- (3) Peer groups of the learner
- (4) Family size from which the learner comes.

3. In the two sets given below Set - I indicates methods of teaching while Set - II provides the basic requirements for success/effectiveness. Match the two sets and indicate your answer by choosing from the code :

Set - I

(Method of teaching)

- (a) Lecturing
- (b) Discussion in groups
- (c) Brainstroeming
- (d) Programmed Instructional procedure

Set - II

(Basic requirements for success/effectiveness)

- (i) Small step presentation with feedback provided
- (ii) Production of large number of ideas
- (iii) Content delivery in a lucid language
- (iv) Use of teaching-aids
- (v) Theme based interaction among participants

Code :

- (a) (b) (c) (d)
- (1) (i) (ii) (iii) (iv)
- (2) (ii) (iii) (iv) (v)
- (3) (iii) (v) (ii) (i)
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web nmr determination of keto enol equilibrium constants in this experiment proton nmr spectroscopy is used in evaluating the equilibrium composition of various keto enol mixtures chemical shifts and spin spin splitting patterns are employed to assign the spectral features to specific protons and the integrated intensities

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web in the first semester lab course you may have determined the temperature dependence of the keto enol equilibrium constants of acetylacetone 2 4 pentanedione and ethyl acetoacetate ethyl 3 oxobutanoate in chloroform d1 cdcl3 and methanol d4 cd3od using 1h nmr 1 4 see figure 1

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web nov 19 2015 we aim to clarify the effects of size confinement solvent and deuterium substitution on keto enol tautomerization of acetylacetone acac in solutions confined in 10 100 nm spaces i e extended nanospaces using 1 h nmr spectroscopy the keto enol equilibrium constants of acac k eq keto enol in various solvents confined

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web the keto enol equilibrium constants of acac keq keto enol in various solvents confined in extended nanospaces of 200

3000 nm were examined using the area ratios of ch 3 peaks in keto to enol forms

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web the enol keto equilibrium constant k_{eq} enol keto and enol are functions of temperature their values can be determined by integrating the enol and keto signal areas table 1 summarizes the equilibrium constant and percent enol concentration values calculated for the different combinations of enol to keto ratio note that

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web the relative amounts of products and reactants at equilibrium is characterized by the equilibrium constant for this reaction k_{eq} is defined as enol eq k_{eq} keto eq where the subscript eq indicates that all concentrations are measured at equilibrium

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web because the system exists essentially completely as the thiol isomer a carbon acid acidity constant for ionization starting with the thio keto form as the initial state q_j could not be measured and a keto enol equilibrium constant k_{eq} could not be determined

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nmr determination of keto enol equilibrium constants introduction in this experiment you will use 1h nmr to determine the keto enol equilibrium composition of two diketones

18 2 keto enol equilibria chemistry libretexts - Mar 27 2023

web keto enol tautomerism because of the acidity of α hydrogens carbonyls undergo keto enol tautomerism tautomers are rapidly interconverted constitutional isomers usually distinguished by a different bonding location for a labile hydrogen atom and a differently located double bond

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web jan 27 2016 several factors affect the position of keto enol equilibrium defined here as k_e k enol keto including structure steric bulk conjugation electron withdrawing donating groups resonance temperature and solvent a judiciously selected set of compounds that have a common 1 3 dicarbonyl moiety with progressively

nmr laboratory report sofiko maglakelidze nmr determination of keto - Oct 22 2022

web experimental methods detailed experimental procedure used for this experiment is given in the chem 417 laboratory manual the experiment 1 nmr determination of keto enol equilibrium constant each student prepared 4 tubes with sample solutions and two nmr tubes with solvent only one with deuterated chloroform and one with the methanol

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web abstract the keno enol equilibrium constants of acetylacetone ethyl acetoacetate and ethyl benzoylacetate in water at 25 c are determined by studying the influence of surfactants on their uv vis spectra following the method applied to benzoylacetone published recently

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web nov 1 2007 the use of proton nmr to determine the equilibrium position of tautomeric 1 3 dicarbonyl compounds in various solvents has been a classic physical chemistry experiment we are presenting an expansion of the excellent description of this experiment by garland shoemaker and nibler

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web using nmr spectroscopy the equilibrium values for different ketones which undergo tautomerization were found by determining relative peak values for each species the value for acetylacetone was found to be k_c 6 622 and for ethyl acetoacetate was k_c 7 5 10

solved nmr determination of keto enol equilibrium constants - Jul 19 2022

web nmr determination of keto enol equilibrium constants the nmr spectrum below is for a acetylacetone with cdcl3 as solvent the photos depict the complete nmr spectrum as well more zoomed in areas of each peak demonstrate how to calculate the equilibrium constant for keto to enol conversion k_c