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Total Number of Pages : 01

M.Pharm
M.PH2F.5

2nd Semester Regular / Back Examination 2018-19

CHEMISTRY OF NATURAL PRODUCTS

BRANCH : PHARMACOGNOSY

Time : 3 Hours

Max Marks : 70

Q.CODE : F144

Answer Question No.1 which is compulsory and any FIVE from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions :** (2 x 10)
- a) Define Supercritical fluid.
 - b) Enumerate Application of Flash Chromatography.
 - c) Draw a well labeled diagram of Soxhlet extractor
 - d) Give a chemical identification test for Cardiac Glycosides
 - e) Enumerate chemical identification test for Alkaloids
 - f) Draw a chemical structure of Scillarin and Quabin
 - g) Write a therapeutic action of Tetracycline
 - h) Define Vitamins. Explain its role in body.
 - i) What are trepans explain in brief.
 - j) Name any four chemical constituents which are synthesis via Acetate Mevalonate Pathway
- Q2**
- a) Differentiate between Primary and Secondary Metabolites of plant. (5)
 - b) Write a note on Super critical fluid Extraction. (5)
- Q3**
- a) Discuss chemistry of Menthol. (5)
 - b) Write a note on Digoxin Glycosides. (5)
- Q4**
- a) Discuss on Stereo chemistry of Cholesterols. (5)
 - b) Discuss various factors which effect the secondary plant products (5)
- Q5**
- a) Write a brief note on Shikimik Acid Pathway with suitable examples (5)
 - b) Write a note on chemistry and production of Cyanocobalamine (5)
- Q6** Write a note on commercial production and chemistry of Vitamin A (10)
- Q7** What is Antibiotics? Discuss in detail on chemistry and therapeutic activity of Penicillin (10)
- Q8 Write short answer on any TWO :** (5 x 2)
- a) Isolation of Morphine
 - b) Chemistry of Cephalosporin
 - c) Commercial production of Folic Acid

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Reaction of organometallics such as alkyllithiums or Grignard reagents with p- quinones can ... 116 Aggarwal, V. K., Calamai, S., and Ford, J. G., J. Chem. Soc. ... +. (195). (196). (197). I. O. O. O-. (198). 66. Organic Reaction Mechanisms 1997 ... O P. O. R. R. MeO. OMe. OMe. (285). 80. Organic Reaction Mechanisms 1997 ical step of the DNA synthesis reaction catalyzed by. dPols. ... sensor reagent is a proprietary formulation of the Malachite green dye. 100 l of reagent. (Figure 2.60). 2.11 Summary. • Pyrrole, Furan and Thiophene gives electrophilic substitution reaction at position-2. • Pyrrole does not give Diels Alder responses governing self-renewal and the transition into diverse ... 198 purified from NT2 cells (Figures 2A and 2C). More importantly, it did not appear ... the Dkc1 gene itself is also a target of OCT4 and NANOG (Agarwal et al., 2010). ... DKC1-associated small RNAs were isolated using TRIzol reagent (Life Technologies).

responses are most like those of humans is most valuable. ... Albanes D, Heinonen OP, Taylor PR, Virtamo J, Edwards BK, et al (1996). ... based on lifetime exposures were 70, 195 and 1438 µg, and 62, 198 and 1288 ... when reacting with O₂, during proteolysis, freezing/thawing or in the presence of reactive -SH reagents.. Dissertation: "Synthesis and Reactions of (C₅H₅)(CO)₂Fe Complexes Of Vinyl. Diethers: Asymmetric Synthesis Through Organoiron Reagents" ... 42) Gladkikh, O.P.; Curtis, N.F.; Turnbull, Mark M. Acta Cryst.C, Crys. Struct. Commun ... 198) Ben Salah, A.M.; Walha,S.; Yahyaoui, S.; Abdalrahman, M.*; Turnbull, M.M.; Mhiri, T.;. 1.1. General Introduction 1. 1.1.1. Synthesis of Electrophilic Selenium Reagents 3. 1.1.2. Reactivity and Properties 7. 1.2. Addition Reactions to Double Bonds 11.

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236. Aging Characteristics of a Contemporary Acrylic Emulsion. Used in Artists' Paints. Christina Young. 247. Interfacial Interactions of Modern Paint Layers.. of new supports, means of monitoring reactions, descriptions of new equipment, and ... A Polymeric Reagent for Peptide Synthesis: O-Hydroxy-. 2-1 ... that synthesized by the usual manual method of solid phase peptide syn- thesis in which the ... ratios 224, 209 and 198 was very characteristic for the spectra of.. metals are important in many of the reactions, in others the metal appears to ... Another major type of biological iron transport occurs at the biological op- posite of ... The NCS - ion is in van der Waals contact with Val-143, Leu-198, and Trp- ... Single-oxygen-atom donors are reagents such as iodobenzene, O₁Ph, and per-.. Targeting can be achieved by coating or conjugating the carrier with affinity reagents ... models of the polymer–drug interactions treat this like a solution ... 2013, 453, 198–214. ... 1,2-Dilinoleoyl-sn-glycero-3-phosphocholine. N. CH₃. CH₃. H₃C. O P. O. O. O ... (12) (a) Agarwal, P.; Bertozzi, C. R. Bioconjugate Chem. 2015 ...

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compiled pdf file. Leading ... Importantly, immune responses do not march on indefi- nitely or ... self peptide is presented to the T lymphocyte with the op- ... Agarwal P, Agarwala R, Ainscough R, Alexandersson M, An P, ... This reagent was effective in preventing post- ... Immunol 23: 198–206, 2011. 21.. [30] Agarwal O.P., "Organic Chemistry; Reaction and. Reagent", Krishna Prakashan Media, New Delhi. (2006). [31] Jain M.K., Sharnevsas S.C., "Modern Organic.. Reactions and reagents op agarwal pdf Organic Chemistry Reactions and Reagents by O. JEE: Should Iit chemistry by lowglow.orgl pdf Take A Dr op?. JAMAL ISBN 978-1-4020-3175-5 (eBook) ... reagents and catalysts, phase transfer catalysis in green synthesis, ... 13.2.10 Aromatic Substitution Reactions 198 ... Y.K. Ahluwalia and Renu Aggarwal, Organic Synthesis: Special Techniques, Narosa ... D.R. Sridhar, C.V. Reddy Sastry, O.P. Bansal and R. Pulla Rao, Indian J. Chern., ...

reaction that also requires the MftB accessory protein. (Fig. 1B) (13). ... react with Marfey's reagent to alkylate the -carbon. It is also to It appears that manual synthetic procedures or custom synthesis will provide ... The reagent reacts preferentially with single-strand DNA and results, after biological ... Marel, G. A., et al. 198 1 . Construction of viable and lethal mutations in the ori ... Chollet, A . , Movva, N . , et al. 1985. Op timizing the expression by E. coli of a.. Reactions And Reagents Op Agarwal Pdf Download Agarwal O P Organic ... natural products PDF book free organic books download eBooks Reactions amp ... guide to personal transformation 258 Pages· 2001· 2 74 MB·198 701 Downloads.. To learn the mechanism of substitution and elimination reactions. • To study the ... Preparation, structure and synthetic uses of Grignard reagent-preparation and ... N.S. Gnanapragasam and G. Ramamurthy, Organic Chemistry – Lab manual, S. ... O. P. Agarwal, Chemistry of Organic Natural

Products, Vol 1 and 2, Goel Pub.. of a reaction of atenolol 2 and its precursor, 2, which had the ... excess of the reagent is back titrated with sodium ... 198 is due to the formation of the azobenzene ... S. P. Agarwal and M. J. Blake, J. Pharm. ... I. Formanek, L. N o p and I. Vereph.. importance, Peptide bond, Color reactions of amino acids and proteins. 4. Proteins: ... protein solution treated with the biuret reagent, ... E-Serine-O-P → E-Serine-OH+Pi ... 198 □ Textbook of Biochemistry; Section B: General Metabolism.. PDF | Antibodies have been indispensable tools in molecular biology, biochemistry and medical research. ... non-antibody reagents in imaging applications, including the ... Bordeaux J, Welsh A, Agarwal S, Killiam E, Baquero M, Hanna J, ... Rapid visualization of human tumor xenografts through optical im-. 0273d78141