



## GRADE 12 LIFE SCIENCES MARCH TEST

### SECTION A

#### QUESTION 1

- 1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write (ONLY) the LETTER (A-D) next to the QUESTION NUMBER (i.e. 1.1.1-1.1.4) on your answer sheet, for example 1.1.1. D.

- 1.1.1 Base that pairs with Uracil

A. Thymine  
B. Guanine  
C. Adenine  
D. Cytosine

- 1.1.2 Bond found between amino acids in a protein

A. Hydrophobic bond  
B. Hydrogen bond  
C. Disulfide bond  
D. Ionic bond

- 1.1.3 THREE adjacent bases found on a DNA or mRNA molecule

A. Polynucleotide  
B. Nucleoside  
C. Nucleotide  
D. Polypeptide

- 1.1.4 Structure where sperm matures

A. Epididymis  
B. Vas deferens  
C. Prostate gland  
D. Seminal vesicle

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- 1.2 Give the correct BIOLOGICAL TERM for each of the following statements (ONLY ONE word or phrase is correct for each statement)

- 1.2.1 The macromolecule that is used to build up fat  
1.2.2 The very cellular structure in a cell where proteins are made (not the nucleus)  
1.2.3 The type of mutation with that occurs as a single strand  
1.2.4 The rough-surfaced, flattened, disc-shaped membrane  
1.2.5 The natural structure of a DNA molecule  
1.2.6 The type of mutation that occurs as a chromosome

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- 1.3 Indicate whether each of the statements in COLUMN I applies to A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UU, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

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(TOTAL SECTION A: 20)

# 19 2014 Life Science Controlled Paper

**Susanne Elaine Churchill**



## 19 2014 Life Science Controlled Paper:

Collected papers Clinton Hart Merriam,1919      Control and Treatment of Landfill Leachate for Sanitary Waste Disposal Aziz, Hamidi Abdul,Amr, Salem Abu,2015-12-02 Municipal solid waste MSW disposal is an ever increasing problem in many parts of the world especially in developing countries To date landfilling is still the preferred option for the disposal and management of MSW due to its low cost operation While this solution is advantageous from a cost perspective it introduces a high level of potential pollutants which can be detrimental to the local environment Control and Treatment of Landfill Leachate for Sanitary Waste Disposal presents research based insights and solutions for the proper management and treatment of landfill leachate Highlighting relevant topics on emerging technologies and treatment innovations for minimizing the environmental hazards of waste disposal this innovative publication contributes to filling in many of the gaps that exist in the current literature available on leachate treatment Waste authorities solid waste management companies landfill operators legislators environmentalists graduate students and researchers will find this publication beneficial to their professional and academic interests in the area of waste treatment and management      *Fundamentals of Space Life Sciences* Susanne Elaine Churchill,1997      *Scientific and Technical Aerospace Reports* ,1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database      Readers' Guide to Periodical Literature ,1922 An author subject index to selected general interest periodicals of reference value in libraries      New Paradigms in Ergonomics Neville A. Stanton,Paul M. Salmon,Guy Walker,2020-04-28 The systems in which we work continue to evolve creating emergent problems and often strengthening intractable issues In order to remain relevant and impactful the discipline of ergonomics needs its paradigms to evolve too The aim of this book is to provide researchers and practitioners with new paradigms in the form of ideas concepts theories methods practices and values The chapters take the reader on a journey through underlying theories new ways to apply those theories and emerging domains in which ergonomics is expected to play a greater role Readers of this book will be inspired by these new paradigms in ergonomics and seek to push the boundaries even further The lifeblood of the science depends on continual evolution and developments to take on the challenges we face in complex sociotechnical systems design and evaluation Perhaps the most significant take home message from this book is the demonstration of how theory maps onto practice As such the only remaining paradigm shift is for these ideas concepts methods and practices to be taken up more widely and the discipline advanced until the next paradigm shift occurs The chapters were originally published as a special issue in the journal *Ergonomics*      **Aerospace Medicine and Biology** ,1991 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA      *American Men of Science* James McKeen Cattell,Jaques Cattell,1927

**Essentials of Single-Cell Analysis** Fan-Gang Tseng, Tuhin Subhra Santra, 2016-01-21 This book provides an overview of single cell isolation separation injection lysis and dynamics analysis as well as a study of their heterogeneity using different miniaturized devices As an important part of single cell analysis different techniques including electroporation microinjection optical trapping optoporation rapid electrokinetic patterning and optoelectronic tweezers are described in detail It presents different fluidic systems e g continuous micro nano fluidic devices microfluidic cytometry and their integration with sensor technology optical and hydrodynamic stretchers etc and demonstrates the applications of single cell analysis in systems biology proteomics genomics epigenomics cancer transcriptomics metabolomics biomedicine and drug delivery systems It also discusses the future challenges for single cell analysis including the advantages and limitations This book is enjoyable reading material while at the same time providing essential information to scientists in academia and professionals in industry working on different aspects of single cell analysis Dr Fan Gang Tseng is a Distinguished Professor of Engineering and System Science at the National Tsing Hua University Taiwan Dr Tuhin Subhra Santra is a Research Associate at the California Nano Systems Institute University of California at Los Angeles USA *Industrial Arts Index* ,1923

Bibliography Related to Human Factors System Program Richard J. Potocko, 1964 Large Space Structures & Systems in the Space Station Era ,1990 *Research Bulletin* University of Wisconsin. College of Agricultural and Life Sciences. Research Division, 1928 **Social Sciences and Humanities Index** ,1916 **Fourth Estate** ,1925 **The Development of Governmental Forest Control in the United States** Jenks Cameron, 1928 **Electronics** ,1963-09 NASA SP. ,1962 **The Encyclopaedia Britannica** ,1903 Monographic Series Library of Congress, 1982

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