

Electron Configurations - KEY

Note: The electron configurations in this worksheet assume that lanthanum (La) is the first element in the 4f block and that actinium (Ac) is the first element in the 5f block. If your periodic table doesn't agree with this, your answers for elements near the f-orbitals may be slightly different (one more/less electron for the f-orbital).

- 1) sodium $1s^2 2s^2 2p^6 3s^1$
- 2) iron $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^6$
- 3) bromine $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^5$
- 4) barium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2$
- 5) neptunium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^6 7s^2 5f^5$
also might be written (due to the close energy of d and f and similarities of elements versus predictable memorized config: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^6 7s^2 6d^1 5f^4$ *)*
- 6) cobalt $[Ar] 4s^2 3d^7$
- 7) silver $[Kr] 5s^2 4d^9$
- 8) tellurium $[Kr] 5s^2 4d^{10} 5p^4$
- 9) radium $[Rn] 7s^2$
- 10) lawrencium $[Rn] 7s^2 5f^{14} 6d^1$
also might be written (due to the close energy of d and f and similarities of elements versus predictable memorized config: $[Rn] 7s^2 6d^1 5f^{14}$ *)*
- 11) $1s^2 2s^2 2p^6 3s^2 3p^4$ sulfur
- 12) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1$ rubidium
- 13) $[Kr] 5s^2 4d^{10} 5p^3$ antimony
- 14) $[Xe] 6s^2 4f^{14} 5d^6$ osmium
- 15) $[Rn] 7s^2 5f^{11}$ einsteinium *note: no d's, so the p. table referenced has Ac as 5f*
- 16) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 4d^{10} 4p^5$ not valid (take a look at "4d"; must be 3 d not 4!)
- 17) $1s^2 2s^2 2p^6 3s^3 3d^5$ not valid (3p comes after 3s); also no 3 electrons in s
- 18) $[Ra] 7s^2 5f^8$ not valid (radium isn't a noble gas)
- 19) $[Kr] 5s^2 4d^{10} 5p^5$ valid
- 20) $[Xe]$ not valid (an element can't be its own electron configuration)

Small Scale Invest Electron Configuration Answers

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The Green Investment Bank Great Britain: Parliament: House of Commons: Environmental Audit Committee, Joan Walley, 2011-03-11 This report warns that the UK could lose out on hundreds of billions of pounds of vital investment in green energy projects if the Government waters down its plans for a Green Investment Bank The Coalition Agreement promised to establish a Green Investment Bank and the Chancellor pledged 1 billion to capitalise it in the Spending Review plus unspecified proceeds from the sale of government assets But there have been reports of disagreement within Government as to whether it should be a fully fledged investment bank able to borrow money and raise further capital or simply a fund If the Office for National Statistics ONS classifies the Bank as public sector its borrowing could appear on the Government's balance sheet and so undermine its deficit reduction strategy Evidence presented to the Environmental Audit Committee by energy companies NGOs and financial institutions suggests that between 200 billion and 1 trillion of private sector investment is needed over the next 10 20 years if the UK is to meet its climate change and renewable energy targets But traditional sources of private sector capital are only likely deliver 50 80 billion of investment in green infrastructure by 2025 leaving the UK with a massive investment shortfall The report argues that establishing a proper Investment Bank is crucial in order to lever in the unprecedented levels of private sector investment needed The Committee concludes that as a priority the Bank should concentrate on new fledgling environmental investment where the market has yet to be established

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testamentary dispositions *ERDA Authorization--Part 1, 1976 and Transition Period Conservation, Hearings Before the Subcommittee on Energy Research, Development and Demonstration Of..., 94-1...* United States. Congress. House Science and Technology Committee,1975 ERDA Authorization: 1976 and transition period United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Research, Development, and Demonstration,1975 *The Role of Regulation in Shaping Equity Market Structure and Electronic Trading* United States. Congress. Senate. Committee on Banking, Housing, and Urban Affairs,2015 **PGT Commerce Question Paper with Answer Key Subject-Wise Bifurcated - Volume II Covering Business Studies, International Business, Financial Management, Business Management, Human Resource Management and Marketing Management** Dheeraj K. Singh, **The National Nanotechnology Investment** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space,2013 **Social Science Chapterwise Objective + Subjective for CBSE Class 10 Term 2 Exam** Oswal - Gurukul,2021-12-07 Chapterwise Social Science Objective Subjective Book for CBSE Class 10 Term II Exam 2022 1500 New Pattern Questions MCQs Extract Based **The Structure of British Industry** Duncan Burn,1961 *Directory of Trade and Investment-Related Organizations of Developing Countries and Areas in Asia and the Pacific* United Nations Publications,2004-06-11 Supersedes 10th edition ISBN 9211200806 **Departments of Transportation, Treasury and General Government, and Related Agencies Appropriations for Fiscal Year ...** United States. Congress. Senate. Committee on Appropriations,2004 Japanese Industrial and Labor Policy United States. Congress. Joint Economic Committee,1982 PGT - Commerce Previous Year Question & Answer Subject Wise Bifurcated 2025 Revised Edition Dheeraj Kumar Singh, 1 DSSSB PGT Commerce 2014 Tier I 6 11 2 DSSSB PGT Commerce 2015 Tier II 12 23 3 DSSSB PGT Commerce 2018 Male 24 39 4 DSSSB PGT Commerce 2018 Female 40 53 5 DSSSB PGT Commerce 2021Male 54 71 6 DSSSB PGT Commerce 2021 Female First Shift 72 86 7 DSSSB PGT Commerce 2021 Female Second Shift 87 102 8 KVS PGT Commerce 2016 103 112 9 KVS PGT Commerce 2018 113 119 10 KVS PGT Commerce 2023 20 125 11 NVS PGT Commerce 2014 126 132 12 NVS PGT Commerce 2016 133 138 13 NVS PGT Commerce 2019 139 146 14 UP PGT Commerce 2015 147 156 15 UP PGT Commerce 2016 157 163 16 UP PGT Commerce 2019 164 171 17 UP PGT Commerce 2021 172 179 18 UP TGT Commerce 2015 180 188 19 UP TGT Commerce 2016 189 195 20 UP TGT Commerce 2019 196 203 21 UP TGT Commerce 2021 204 211 22 HTET PGT Commerce 2016 212 217 23 HTET PGT Commerce 2018 218 222 24 HTET PGT Commerce 2019 223 228 25 HTET PGT Commerce 2020 229 233 26 HTET PGT Commerce 2021 234 238 27 HTET PGT Commerce 2022 239 243 28 HTET PGT Commerce 2023 244 248 29 HTET PGT Commerce 2024 249 254 30 HPSC Commerce Screening Test 2023 255 263 31 HPSC Commerce Screening Test 2024 264 270 32 Army School PGT Commerce 2012 271 277 33 Bihar STET commerce 2023 Shift II 278 284 34 BPSC School Teacher Written Examination 2023 285 292 35 Tripura PGT Commerce 2017 293 303 36 Tripura PGT Commerce 2018 304 312 **Public interest** United States. Naval

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