

Advanced Higher Past Papers - Topics Linked to Questions

|                                             |                                              | Revised AH 2013                |             | Revised AH 2014                |                  | Revised AH 2015 |                    | AH 2016            |                 | AH 2017        |                         | AH 2018             |                | AH 2019        |              | AH Specimen 2019 |                  |
|---------------------------------------------|----------------------------------------------|--------------------------------|-------------|--------------------------------|------------------|-----------------|--------------------|--------------------|-----------------|----------------|-------------------------|---------------------|----------------|----------------|--------------|------------------|------------------|
|                                             |                                              | 1                              | 2           | 1                              | 2                | 1               | 2                  | 1                  | 2               | 1              | 2                       | 1                   | 2              | 1              | 2            | 1                | 2                |
| Inorganic Chemistry                         | Electromagnetic Radiation and Atomic Spectra | 2, 3, 4,                       | 4d          | 4, 6, 7                        | 1a, d            | 1, 2            | 1b                 | 1                  | 6a              |                | 1                       | 1                   | 1a             | 1              | 7d           | 1                | 1                |
|                                             | Atomic orbitals and Electronic Configuration | 1, 5, 6,                       | 1a, b       | 1, 2, 3, 5, 10                 | 1b, c            | 3, 4            | 1a, 4c             | 2, 3               | 2               | 1, 2, 3, 4     | 4a ii                   | 2, 3, 5             | 1b, 10b        | 4              | 1a           | 2, 3             | 3aii, 3aiii      |
|                                             | Shape and polyatomic molecules               | 8, 9                           |             | 8, 9                           |                  | 5               |                    | 4                  |                 |                | 2b                      | 4                   |                | 5              |              | 4                |                  |
|                                             | Transition Metals                            | 10                             | 5a, c, d    | 11                             |                  | 6, 7, 8, 9      | 5                  | 5                  | 3               | 5              | 4a i, 4 b ii, 6a        | 5, 6                | 4a, 6a, b      | 6, 7, 8        | 4b           | 5                | 3ai, 7aii, 7c    |
| Physical Chemistry                          | Chemical Equilibrium                         | 13, 14, 16, 17, 18             | 6           |                                | 5, 13            | 20, 21, 24      | 6a                 | 6, 7, 8            | 5, 9b iii       | 6, 7           | 2a, 6bi, ii             | 7, 8, 9, 10, 11, 12 | 2              | 9, 29          | 1c, 4a, b, c | 6, 7, 8, 9       | 2                |
|                                             | Reaction Feasibility                         | 19, 20                         | 2           |                                | 3                | 22, 23, 24      | 2                  | 9, 10              | 1               | 8              | 3                       | 13                  | 4d             | 10, 11, 12     | 1b           | 10, 11, 12       | 5                |
|                                             | Kinetics                                     |                                | 8a-c        | 13, 14                         | 11a, b           | 25              | 6b                 | 11                 | 6b              | 9, 10          | 4 b i, ii               | 14                  | 9d             | 13, 14         | 2            | 13, 14           | 6                |
|                                             |                                              |                                |             |                                |                  |                 |                    |                    |                 |                |                         |                     |                |                |              |                  |                  |
| Organic Chemistry and Instrumental Analysis | Molecular Orbitals                           |                                | 1c          | 15                             |                  | 10, 11, 18      | 9a, b              | 12, 13             | 9a              | 11, 12         |                         | 15                  | 5              | 15, 16         | 7b, c        | 16, 17           | 8b               |
|                                             | Synthesis                                    | 22, 23, 24, 25, 26, 27, 28, 30 | 8e, 10, 11a | 18, 19, 20, 21, 22, 23, 24, 25 | 6, 8, 9, 11c, d  | 15, 16, 17, 26  | 4a, 8, 9d, 10, 11a | 14-23              | 7c, 8b-e        | 14-18          | 9, 11c                  | 18, 19              | 7a, 9a, b, 10a | 19, 20, 21, 22 | 9b, 10a-c    | 18, 19, 20, 22   | 9a, 9b, 10a, 10b |
|                                             | Stereochemistry                              |                                | 8d          | 16, 17                         | 9a, 11d          | 13, 14          | 9c, 10,            |                    | 7a, b           | 13             | 8b, c                   | 17                  | 4b, c          | 17, 18         | 9a, 10d      | 15, 21           | 7ai, 8ai, 8aii   |
|                                             | Experimental determination of structure      | 7                              | 7, 12       | 26, 27, 28, 29                 | 9b, 8a           | 19              | 4e, 10e, 11a, 12   | 24                 | 10              | 19, 20         | 8a, 11b                 | 20, 21, 22          | 9c, 10d        | 23, 24, 25     | 7d, 10e      | 23               | 8aiii            |
|                                             | Drug Interactions                            | 29                             | 7           | 30                             | 7a               |                 |                    | 25                 | 8a              | 21             | 8d                      | 23                  |                | 26             |              | 24, 25           | 8ci              |
| Researching Chemistry                       | Stoichiometric calculations                  | 11, 12                         | 4, 5b, 11b  |                                | 1e, 2, 7b, 9, 12 | 27, 30          | 3, 4c              | 26, 27, 28, 29, 30 | 4, 9b v         | 27, 28, 29     | 4 b ii, 6b iii, 7a, 10a | 16, 24              | 3, 6c, 7b, 8a  | 27             | 3, 4c, 6, 9b |                  | 7b               |
|                                             | Gravimetric analysis                         | 11                             | 5b          |                                | 2, 12            | 30              |                    | 29                 | 4               | 22             | 6 b iii                 | 28                  | 3a, b, 6c      | 2, 3           |              |                  |                  |
|                                             | Volumetric analysis                          | 11                             | 9           |                                | 2                |                 | 3                  |                    | 4               | 25, 27         | 10a                     |                     |                |                |              |                  |                  |
|                                             | Practical skills and techniques              | 21                             | 4a-c        |                                | 5b, 8a           | 28, 29          | 4b, d, 9e          |                    | 4, 9b i, ii, iv | 23, 24, 25, 30 | 7a, 11a                 | 25, 26, 27, 29, 30  | 7c, 8b, c, 10c | 28, 29, 30     | 3, 7a, 7d    |                  | 3bi, 3bii, 4, 9c |
|                                             | Open Ended Questions                         |                                | 3, 11c      |                                | 4, 10            |                 | 7, 11b             |                    | 3b iii, 8f      |                | 5, 10b                  |                     | 3c, 8d         |                | 4d, 8        |                  | 3biii, 8cii      |