

# Sommaire

| BTS  | Année      | Énoncé     | Corrigé    |
|--|------------|------------|------------|
| <b>Bioanalyses et contrôles</b><br><br>(durée de l'examen : 2 h ; coefficient : 3)   | 1999       | <b>11</b>  | <b>15</b>  |
|  | 2004       | <b>23</b>  | <b>26</b>  |
|  | 2005       | <b>35</b>  | <b>39</b>  |
|  | 2006       | <b>47</b>  | <b>51</b>  |
|  | 2007       | <b>59</b>  | <b>63</b>  |
|  | 2008       | <b>71</b>  | <b>75</b>  |
| <b>Analyses de biologie médicale</b><br><br>(durée de l'examen : 2 h ; coefficient : 2)  | 2004       | <b>83</b>  | <b>86</b>  |
|  | 2005       | <b>93</b>  | <b>95</b>  |
|  | 2006       | <b>101</b> | <b>104</b> |
|  | 2007       | <b>109</b> | <b>112</b> |
|  | 2008       | <b>117</b> | <b>121</b> |
| <b>Biotechnologie</b><br><br>(durée de l'examen : 2 h ; coefficient : 1)   | 2004       | <b>129</b> | <b>132</b> |
|  | 2005       | <b>137</b> | <b>141</b> |
|  | 2006       | <b>149</b> | <b>153</b> |
|  | 2007       | <b>161</b> | <b>166</b> |
|  | 2008       | <b>173</b> | <b>176</b> |
| <b>Qualité dans les industries alimentaires et les bio-industries (QIABI)</b><br><br>(durée de l'examen : 2 h ; coefficient : 3) | 2005       | <b>183</b> | <b>187</b> |
|  | 2006       | <b>193</b> | <b>197</b> |
|  | 2007       | <b>203</b> | <b>206</b> |
|  | 2008       | <b>211</b> | <b>217</b> |
| <b>Conseils pour la résolution des exercices et pour l'examen</b>  | <b>223</b> |            |            |



# Sommaire thématique : PHYSIQUE

|                        | BTS BioAC |    |    |    |    |    |    |    | BTS ABM |    |    |    |    |    |    |    | BTS Biotechnologie |    |    |    |    |    |    |    | BTS QIABI |   |  |  |
|------------------------|-----------|----|----|----|----|----|----|----|---------|----|----|----|----|----|----|----|--------------------|----|----|----|----|----|----|----|-----------|---|--|--|
| Sessions :             | 99        | 04 | 05 | 06 | 07 | 08 | 04 | 05 | 06      | 07 | 08 | 04 | 05 | 06 | 07 | 08 | 05                 | 06 | 07 | 08 | 05 | 06 | 07 | 08 |           |   |  |  |
| Réfraction             |           |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |                    |    |    |    |    |    |    |    |           |   |  |  |
| Fibre optique          |           |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |                    |    |    |    |    |    |    |    |           | X |  |  |
| Microscope             | X         |    |    |    |    |    |    |    |         |    |    | X  |    |    |    |    |                    |    |    |    |    |    |    |    |           |   |  |  |
| Polarimétrie           |           |    |    |    |    |    |    |    |         |    |    | X  |    |    |    |    |                    |    |    |    | X  | X  |    |    |           |   |  |  |
| Réseaux de diffraction |           |    |    |    |    |    |    |    |         |    |    | X  |    |    |    |    |                    |    |    |    | X  |    |    |    |           |   |  |  |
| Spectrophotométrie     |           |    |    |    |    |    |    |    |         |    |    | X  |    |    |    |    |                    |    |    |    | X  | X  |    |    |           |   |  |  |
| Électronique Capteurs  |           |    |    |    |    |    |    |    |         |    |    | X  |    |    |    |    |                    |    |    |    | X  |    |    |    |           |   |  |  |
| Tension superficielle  |           |    |    |    |    |    |    |    |         |    |    | X  |    |    |    |    |                    |    |    |    |    |    |    |    |           |   |  |  |
| Dynamique des fluides  |           |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |                    |    |    |    |    |    |    |    |           | X |  |  |
| Viscosité              |           |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |                    |    |    | X  |    |    |    |    |           |   |  |  |
| Diffusion              |           |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |                    |    |    | X  |    |    |    |    |           |   |  |  |
| Sédimentation          |           |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |                    |    |    | X  |    |    |    |    |           |   |  |  |
| Radioactivité          |           |    |    |    |    |    |    |    |         |    |    |    |    |    |    |    |                    |    |    | X  |    |    |    |    |           | X |  |  |

# Sommaire thématique : CHIMIE GÉNÉRALE

|                            | BTS BioAC |    |    |    | BTS ABM |    |    |    | BTS Biotechnologie |    |    |    | BTS QIABI |    |    |    |
|----------------------------|-----------|----|----|----|---------|----|----|----|--------------------|----|----|----|-----------|----|----|----|
| Sessions :                 | 99        | 04 | 05 | 06 | 07      | 08 | 04 | 05 | 06                 | 07 | 08 | 04 | 05        | 06 | 07 | 08 |
| Acides-Bases,<br>pH-métrie | X         | X  |    |    |         |    | X  |    | X                  |    |    | X  | X         |    | X  | X  |
| Conductimétrie             |           |    |    |    |         |    |    |    |                    |    |    |    |           |    |    | X  |
| Solubilité                 |           |    |    |    |         |    | X  |    | X                  |    | X  |    |           |    | X  |    |
| Complexes                  |           |    |    |    |         |    | X  |    |                    |    |    | X  | X         | X  |    | X  |
| Atomistique                |           | X  |    |    |         |    |    | X  |                    |    |    | X  |           |    |    |    |
| Thermochimie               | X         |    | X  |    |         |    |    | X  |                    |    |    | X  | X         | X  |    |    |
| Oxydoréduction             |           |    |    |    |         |    |    | X  |                    |    |    | X  |           |    |    |    |
| Cinétique                  |           |    |    |    |         |    |    |    | X                  | X  |    |    | X         | X  |    |    |

# Sommaire thématique : CHIMIE ORGANIQUE

|                                 | BTS BioAC |    |    |    | BTS ABM |    |    |    | BTS Biotechnologie |    |    |    | BTS QIABI |    |    |    |
|---------------------------------|-----------|----|----|----|---------|----|----|----|--------------------|----|----|----|-----------|----|----|----|
| Sessions :                      | 99        | 04 | 05 | 06 | 07      | 08 | 04 | 05 | 06                 | 07 | 08 | 04 | 05        | 06 | 07 | 08 |
| stéréochimie                    | X         | X  |    | X  | X       |    | X  | X  | X                  | X  | X  | X  | X         | X  | X  | X  |
| RMN ; IR                        |           |    |    |    |         |    |    |    |                    |    |    | X  | X         |    |    | X  |
| alcènes                         |           |    |    |    | X       | X  |    | X  | X                  | X  | X  |    |           |    |    |    |
| dérivés halogénés               | X         |    | X  | X  |         |    |    |    | X                  |    | X  |    |           |    |    |    |
| organomagnésiens                | X         | X  |    |    | X       |    |    |    |                    | X  |    |    |           |    |    |    |
| cycles aromatiques              | X         |    | X  | X  |         |    |    | X  |                    |    | X  |    |           |    |    | X  |
| alcool                          | X         |    | X  |    |         |    |    | X  | X                  |    | X  |    | X         | X  |    |    |
| amines                          |           |    | X  |    |         |    |    |    |                    |    |    |    |           |    |    |    |
| aldéhydes et cétones            |           | X  |    |    |         | X  | X  |    |                    |    | X  |    |           | X  |    |    |
| acides carboxyliques et dérivés |           |    | X  | X  | X       | X  |    | X  | X                  | X  |    | X  | X         |    |    | X  |