

# Skema Soalan 4

| No                                                                        | Cadangan Jawapan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Markah                                                        |   |   |                                                                           |  |                                                              |   |   |                                                          |  |   |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---|---|---------------------------------------------------------------------------|--|--------------------------------------------------------------|---|---|----------------------------------------------------------|--|---|
| (a) (i)                                                                   | <p><b>Dapat menamakan struktur S</b></p> <p><b>Jawapan:</b></p> <p>Kelenjar peluh</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                             |   |   |                                                                           |  |                                                              |   |   |                                                          |  |   |
| (a) (ii)                                                                  | <p><b>Dapat menandakan ✓ bagi fungsi yang betul untuk struktur S dalam kotak yang disediakan.</b></p> <p><b>Jawapan:</b></p> <table><tr><td>Struktur S menjadi aktif<br/><i>Structure S becomes active</i></td><td>✓</td><td rowspan="2">1</td></tr><tr><td>Struktur S menjadi kurang aktif<br/><i>Structure S becomes less active</i></td><td></td></tr><tr><td>Banyak peluh dihasilkan<br/><i>A lot of sweat is produced</i></td><td>✓</td><td rowspan="2">1</td></tr><tr><td>Kurang peluh dihasilkan<br/><i>Less sweat is produced</i></td><td></td></tr></table> | Struktur S menjadi aktif<br><i>Structure S becomes active</i> | ✓ | 1 | Struktur S menjadi kurang aktif<br><i>Structure S becomes less active</i> |  | Banyak peluh dihasilkan<br><i>A lot of sweat is produced</i> | ✓ | 1 | Kurang peluh dihasilkan<br><i>Less sweat is produced</i> |  | 2 |
| Struktur S menjadi aktif<br><i>Structure S becomes active</i>             | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                             |   |   |                                                                           |  |                                                              |   |   |                                                          |  |   |
| Struktur S menjadi kurang aktif<br><i>Structure S becomes less active</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                               |   |   |                                                                           |  |                                                              |   |   |                                                          |  |   |
| Banyak peluh dihasilkan<br><i>A lot of sweat is produced</i>              | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                             |   |   |                                                                           |  |                                                              |   |   |                                                          |  |   |
| Kurang peluh dihasilkan<br><i>Less sweat is produced</i>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                               |   |   |                                                                           |  |                                                              |   |   |                                                          |  |   |
| (b)                                                                       | <p><b>Dapat menerangkan bagaimana struktur R bertindak untuk mengembalikan suhu badan kembali ke 37°C.</b></p> <p><b>Jawapan:</b></p> <p>F : Otot erektor kurang dirangsang //Otot erektor mengendur</p> <p>P1 : Bulu roma akan condong ke permukaan kulit</p> <p>P2 : Lapisan udara yang nipis terperangkap (antara bulu roma)</p> <p>P3 : Haba dapat dibebaskan dengan cepat / lebih banyak</p> <p style="text-align: right;"><b>Mana-mana 2</b></p>                                                                                                               | 2<br><br>1<br>1<br>1<br>1                                     |   |   |                                                                           |  |                                                              |   |   |                                                          |  |   |

| (c)                                                             | <p>Dapat mencadangkan satu langkah dan menerangkan bagaimana untuk mengurangkan gejala hipotermia pada kanak-kanak tersebut.</p> <p>Jawapan:</p> <table><tr><th>CADANGAN</th><th>PENERANGAN</th></tr><tr><td>C1: Guna selimut/ baju /pakaian tebal</td><td rowspan="2">P1: Untuk memerangkap lapisan udara //mengurangkan pembebasan haba</td></tr><tr><td>C2: Menukar pakaian yang basah kepada pakaian lebih kering</td></tr><tr><td>C3: Memberi minuman hangat /panas /tuam dengan beg panas</td><td rowspan="2">P2: Untuk meningkatkan suhu badan /kadar metabolisme /kadar respirasi</td></tr><tr><td>C4: Memindahkan kanak-kanak ke kawasan yang lebih kering /panas</td></tr></table> <p>Mana-mana C dan P yang sepadan</p> | CADANGAN | PENERANGAN | C1: Guna selimut/ baju /pakaian tebal | P1: Untuk memerangkap lapisan udara //mengurangkan pembebasan haba | C2: Menukar pakaian yang basah kepada pakaian lebih kering | C3: Memberi minuman hangat /panas /tuam dengan beg panas | P2: Untuk meningkatkan suhu badan /kadar metabolisme /kadar respirasi | C4: Memindahkan kanak-kanak ke kawasan yang lebih kering /panas | 2 |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|---------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------|---|
| CADANGAN                                                        | PENERANGAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |            |                                       |                                                                    |                                                            |                                                          |                                                                       |                                                                 |   |
| C1: Guna selimut/ baju /pakaian tebal                           | P1: Untuk memerangkap lapisan udara //mengurangkan pembebasan haba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |            |                                       |                                                                    |                                                            |                                                          |                                                                       |                                                                 |   |
| C2: Menukar pakaian yang basah kepada pakaian lebih kering      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |            |                                       |                                                                    |                                                            |                                                          |                                                                       |                                                                 |   |
| C3: Memberi minuman hangat /panas /tuam dengan beg panas        | P2: Untuk meningkatkan suhu badan /kadar metabolisme /kadar respirasi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |            |                                       |                                                                    |                                                            |                                                          |                                                                       |                                                                 |   |
| C4: Memindahkan kanak-kanak ke kawasan yang lebih kering /panas |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |            |                                       |                                                                    |                                                            |                                                          |                                                                       |                                                                 |   |
|                                                                 | JUMLAH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7        |            |                                       |                                                                    |                                                            |                                                          |                                                                       |                                                                 |   |

| No   | Kriteria Pemarkahan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Markah                              |   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---|
| 7a   | <p><b>Dapat menamakan struktur berlabel S dan T.</b><br/> <i>Able to name the structure label S and T.</i></p> <p><b>Jawapan</b><br/> <i>Answers</i></p> <p>S: Glomerulus<br/> <i>Glomerulus</i></p> <p>T: Tubul berlingkar proksimal<br/> <i>Proximal convoluted tubule</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>1</p> <p>1</p>                   | 2 |
| b.i  | <p><b>Dapat menyatakan proses yang berlaku di T.</b><br/> <i>Able to explain the process that happens in T.</i></p> <p><b>Jawapan</b><br/> <i>Answer</i></p> <p>(Proses) penyerapan semula<br/> <i>Reabsorption (process)</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                   | 1 |
| b.ii | <p><b>Dapat menerangkan bagaimana hasil turasan daripada struktur S diangkut ke dalam kapilari darah daripada T.</b><br/> <i>Able to explain how the filtrate from the structure S is transported inside the blood capillaries from T.</i></p> <p><b>Contoh Jawapan</b><br/> <i>Sample Answers</i></p> <p>P1: Ion natrium/ <math>\text{Na}^+</math> dipam secara aktif (ke dalam jaringan kapilari darah)<br/> <i>Sodium ion/ <math>\text{Na}^+</math> are actively pumped (into the blood capillary)</i></p> <p>P2: Ion klorida/ <math>\text{Cl}^-</math> dipam secara pasif (ke dalam jaringan kapilari darah)<br/> <i>Chloride ion/ <math>\text{Cl}^-</math> passively pumped (into the blood capillary)</i></p> <p>P3: Glukosa/ Asid amino diangkut secara pengangkutan aktif<br/> <i>Glucose/ Amino acid are transported by active transport</i></p> <p>P4: (Molekul) air meresap (ke dalam kapilari darah) secara osmosis<br/> <i>(Molecule) of water diffuse (into blood capillaries) through osmosis</i></p> <p><b>Mana-mana 3P</b><br/> <b>Any 3P</b></p> | <p>1</p> <p>1</p> <p>1</p> <p>1</p> | 3 |

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| c | <p><b>Dapat mewajarkan satu sebab mengapa pesakit tersebut menghadapi masalah kesihatan seperti yang dinyatakan dan kesan masalah tersebut terhadap kesihatan beliau.</b><br/> <i>Able to justify one reason why the patient has the health problem as stated and the effect of the problem on his health.</i></p> <p><b>Contoh Jawapan:</b><br/> <i>Sample Answers:</i></p> <p>F1: Kurang minum air<br/> <i>Drinking less water</i></p> <p>P1: (Menyebabkan) pendehidratasi// Air kencing menjadi pekat<br/> <i>(Cause) dehydration// Urine becomes concentrated</i></p> <p>F2: Pengambilan garam mineral/ kalsium berlebihan<br/> <i>Excess intake of mineral salt// calcium</i></p> <p>P2: Menggalakkan pembentukan kalsium oksalat/ hablur kalsium fosfat/ batu karang dalam ginjal<br/> <i>Promotes the formation of calcium oxalate/ calcium phosphate crystals/ kidney stones</i></p> <p>E1: (Batu karang) menyebabkan ureter tersumbat<br/> <i>(Kidney stones) cause blocked ureter</i></p> <p>E2: Mengurangkan penghasilan air kencing<br/> <i>Reduced the production of urine</i></p> <p><b>1F+1P yang sepadan dan mana-mana 1E</b><br/> <i>1F+1P corresponding + any 1E</i></p> | <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> | <p>3</p> |
|   | <b>Jumlah</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                       | <b>9</b> |

**SOALAN 10**

| No      | Skema Markah<br><i>Mark Scheme</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Markah<br><i>Mark</i>               | Jumlah<br><i>Total</i> |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------|
| (a)(i)  | <p>Dapat menamakan P dan Q.<br/><i>Able to name P and Q.</i></p> <p>Answer:<br/><i>Jawapan:</i></p> <p>P : Glomerulus / <i>Glomerulus</i></p> <p>Q : Kapsul Bowman / <i>Bowman's capsule</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>1</p> <p>1</p>                   | 2                      |
| (a)(ii) | <p>Dapat menerangkan proses yang berlaku di antara P dan Q.<br/><i>Able to explain the process that occurs between P and Q.</i></p> <p>Jawapan:<br/><i>Answers:</i></p> <p>P1: Proses ultraturasan berlaku<br/><i>The ultrafiltration process takes place</i></p> <p>P2: Disebabkan oleh tekanan hidrostatik yang tinggi dalam P / glomerulus<br/><i>Due to high hydrostatic pressure in the P / glomerulus</i></p> <p>P3: (sebahagian) plasma darah terturas ke dalam Q / Kapsul Bowman<br/><i>(partial) of blood plasma is filtered into the Q / Bowman's capsule</i></p> <p>P4: Kecuali sel darah merah / protein plasma / platlet<br/><i>Except red blood cells / plasma proteins / platelets</i></p> <p>[Mana-mana 2]<br/>[Any 2]</p> | <p>1</p> <p>1</p> <p>1</p> <p>1</p> | 2                      |
| (b)     | <p>Dapat menghuraikan mengapa air kencing yang dihasilkan sangat pekat dan sedikit kuantitinya.<br/><i>Able to describe why the urine produced is very concentrated and low in volume.</i></p> <p>Jawapan:<br/><i>Answers:</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     | 6                      |

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|     | <p>P1: Pada hari yang panas, buruh berpeluh dengan banyak<br/><i>On a hot day, labourer sweats profusely</i></p> <p>P2: Tekanan osmosis darah meningkat<br/><i>The blood osmotic pressure increases</i></p> <p>P3: Perubahan ini dikesan oleh osmoreseptor di hipotalamus<br/><i>The change is detected by osmoreceptors in the hypothalamus</i></p> <p>P4: Menyebabkan kelenjar pituitari lebih dirangsang<br/><i>Causes the pituitary gland to be more stimulated</i></p> <p>P5: Maka, lebih banyak ADH dirembeskan<br/><i>Thus, more ADH is secreted</i></p> <p>P6: Dinding tubul berlingkar distal / duktus pengumpul lebih telap terhadap air<br/><i>The wall of the distal convulated tubule / collecting duct is more permeable to water</i></p> <p>P7: Lebih banyak air diserap semula ke dalam kapilari darah<br/><i>More water is reabsorbed into the blood capillaries</i></p> <p>P8: Tekanan osmosis darah turun / kembali ke julat normal<br/><i>Blood osmotic pressure decreases / returns to normal range</i></p> <p style="text-align: right;">[Mana-mana 6]<br/>[Any 6]</p> | <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> |    |
| (c) | <p>Dapat menyatakan perbandingan di antara sistem X dan sistem Y.<br/><i>Able to state the comparison between the system X and system Y.</i></p> <p>Jawapan:<br/><i>Answers:</i></p> <p><b>Persamaan:</b><br/><i>Similarity:</i></p> <p>S1: Kedua-dua sistem menghantar isyarat ke efektor<br/><i>Both systems send a signal to the effector</i></p> <p>S2: Kedua-dua sistem menghasilkan gerak balas<br/><i>Both systems produce a response</i></p> <p><b>Perbezaan:</b><br/><i>Differences:</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>1</p> <p>1</p>                                                       | 10 |

|  | <b>Sistem X</b><br><i>System X</i>                                                                                                | <b>Sistem Y</b><br><i>System Y</i>                                                                                                               |   |           |
|--|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|
|  | D1: Sistem saraf<br><i>Nervous system</i>                                                                                         | Sistem endokrin<br><i>Endocrine system</i>                                                                                                       | 1 |           |
|  | D2: Sistem terdiri daripada neuron / otak / saraf tunjang<br><i>The system consists of neurons / brain / spinal cord</i>          | Sistem terdiri daripada kelenjar endokrin / darah<br><i>The system consists of endocrine glands / blood</i>                                      | 1 |           |
|  | D3: Isyarat adalah dalam bentuk elektrik / impuls<br><i>The signal is in bioelectric form / impulse</i>                           | Isyarat adalah dalam bentuk kimia / hormon<br><i>The signal is in chemical form / hormone</i>                                                    | 1 |           |
|  | D4: Isyarat dihantar melalui gentian saraf / neuron<br><i>Signals are sent through nerve fibers / neurone</i>                     | Isyarat dihantar melalui aliran darah<br><i>Signals are sent through the bloodstream</i>                                                         | 1 |           |
|  | D5: Penghantaran isyarat sangat cepat<br><i>Signal transmission is very fast</i>                                                  | Penghantaran isyarat perlahan<br><i>Signal transmission is slow</i>                                                                              | 1 |           |
|  | D6: Gerak balas adalah serta merta<br><i>The response was immediate</i>                                                           | Gerak balas adalah lambat<br><i>The response was not immediate</i>                                                                               | 1 |           |
|  | D7: Melibatkan satu organ sasaran sahaja // organ sasaran terhad<br><i>Involved one target organ only // limited target organ</i> | Melibatkan beberapa organ sasaran<br><i>Involves several target organs</i>                                                                       | 1 |           |
|  | D8: Tempoh kesan / gerak balas adalah pendek<br><i>The duration of the effect / response is short</i>                             | Tempoh kesan / gerak balas adalah panjang<br><i>The duration of the effect / response is long</i>                                                | 1 |           |
|  | D9: Mengawal tindakan terkawal/ tindakan luar kawal<br><i>Control voluntary action / involuntary action</i>                       | Mengawal pembiakan / pertumbuhan // mengawalatur persekitaran dalam<br><i>Control reproduction / growth // regulate the internal environment</i> | 1 |           |
|  | <b>JUMLAH</b>                                                                                                                     |                                                                                                                                                  |   | <b>20</b> |

| Item Num. | Scoring Criteria                                                                                                                                                                                                                                    | Mark   |   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---|
| 4(a)(i)   | <p>Able to name hormone that involves in regulation of blood osmotic pressure from the following glands:</p> <p><i>Answer:</i><br/> Pituitary gland : ADH / Antidiuresis (hormone)<br/> Adrenal gland : Aldosterone (hormone)</p>                   | 1<br>1 | 2 |
| 4(a)(ii)  | <p>Able to state the changes of blood osmotic pressure while carrying out activity as shown in Diagram 4.1 and Diagram 4.2</p> <p><i>Answers:</i><br/> Diagram 4.1 : increase<br/> Diagram 4.2 : decrease</p> <p><i>Note: Both must correct</i></p> | 1      | 1 |

2

| 4(a)(iii)                                                                                      | <p>Able to state the differences between regulatory mechanism of blood osmotic pressure for both situations in Diagram 4.1 and Diagram 4.2.</p> <p><i>Suggested answer:</i></p> <table><tr><th>Diagram 4.1</th><th>Diagram 4.2</th></tr><tr><td>P1: Blood osmotic pressure lower / decrease (than normal)</td><td>Blood osmotic pressure higher / increase (than normal)</td></tr><tr><td>P2: Less ADH secreted (from pituitary gland) // More aldosterone secreted (from adrenal gland)</td><td>More ADH secreted (from pituitary gland) // Less aldosterone secreted (from adrenal gland)</td></tr><tr><td>P3: Less water reabsorbed // More salt reabsorbed</td><td>More water reabsorbed // Less salt reabsorbed</td></tr></table> <p><i>Note: Any two</i></p> | Diagram 4.1 | Diagram 4.2 | P1: Blood osmotic pressure lower / decrease (than normal) | Blood osmotic pressure higher / increase (than normal) | P2: Less ADH secreted (from pituitary gland) // More aldosterone secreted (from adrenal gland) | More ADH secreted (from pituitary gland) // Less aldosterone secreted (from adrenal gland) | P3: Less water reabsorbed // More salt reabsorbed | More water reabsorbed // Less salt reabsorbed | 1<br>1<br>1 | 2 |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-----------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-------------|---|
| Diagram 4.1                                                                                    | Diagram 4.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |             |                                                           |                                                        |                                                                                                |                                                                                            |                                                   |                                               |             |   |
| P1: Blood osmotic pressure lower / decrease (than normal)                                      | Blood osmotic pressure higher / increase (than normal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |             |                                                           |                                                        |                                                                                                |                                                                                            |                                                   |                                               |             |   |
| P2: Less ADH secreted (from pituitary gland) // More aldosterone secreted (from adrenal gland) | More ADH secreted (from pituitary gland) // Less aldosterone secreted (from adrenal gland)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |             |                                                           |                                                        |                                                                                                |                                                                                            |                                                   |                                               |             |   |
| P3: Less water reabsorbed // More salt reabsorbed                                              | More water reabsorbed // Less salt reabsorbed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |             |                                                           |                                                        |                                                                                                |                                                                                            |                                                   |                                               |             |   |
| 4(b)                                                                                           | <p>Able to explain the effect of consuming the food on the formation of urine in individual S.</p> <p><i>Suggested answer:</i></p> <p>F: Small amount and concentrated urine</p> <p>P: more water <b>reabsorbed</b> in distal convoluted tubule and collecting duct // increase <b>reabsorption</b> of water in kidneys.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1<br>1      | 2           |                                                           |                                                        |                                                                                                |                                                                                            |                                                   |                                               |             |   |
| <b>Total</b>                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | <b>7</b>    |                                                           |                                                        |                                                                                                |                                                                                            |                                                   |                                               |             |   |