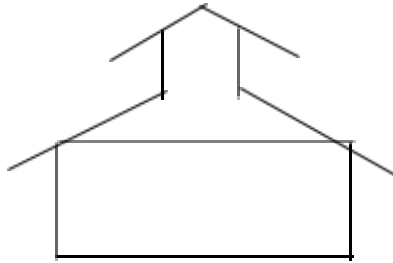


**PERATURAN PEMARKAHAN PEPERIKSAAN PERCUBAAN SPM 2022 PERTANIAN**

|    | <b>BAHAGIAN A</b>                                                                                                            |                                              |
|----|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1  | A – Kelodak<br>B – Pasir                                                                                                     | 1 markah<br>1 markah                         |
| 2  | 2<br>4<br>1<br>3                                                                                                             | 1 markah<br>1 markah<br>1 markah<br>1 markah |
| 3  | i) Untuk memotong, mengangkat, memecah dan membalikkan tanah<br>ii) Untuk membuat batas / membuat alur antara batas          | 1 markah<br>1 markah                         |
| 4  | i) CaP (Calcium Phosphate)<br>ii) FPJ (Fermented Plant Juices)                                                               | 1 markah<br>1 markah                         |
| 5  | i) Integrasi<br>ii) Ternakan ayam/itik/puyuh + ikan<br>Ternakan ayam/itik/puyuh + udang                                      | 1 markah<br>1 markah                         |
| 6  | P / Q : Jenis hasil ternakan<br>P / Q : Bilangan ternakan                                                                    | 1 markah<br>1 markah                         |
| 7  | Bumbung 2 lapis<br><br>                   | 2 markah                                     |
| 8  | i) Sumber tenaga<br>ii) Sumber makanan simpanan<br>iii) Membentuk tisu bawah kulit<br>iv) Penebat haba<br>v) Pelarut vitamin | 1 markah<br>1 markah                         |
| 9  | i) Bekas makanan<br>ii) Bekas minuman<br>iii) Alat pemanas / gasolec hoover<br>iv) Hygrometer / pengukur kelembapan          | 1 markah<br>1 markah<br>1 markah<br>1 markah |
| 10 | $\frac{0.45}{0.11}$ atau $\frac{450}{110}$                                                                                   | 1 markah                                     |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|    | = 4.09                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 markah                         |
|    | Ayam makan 4.09 kg untuk menghasilkan 1 kg berat badan.                                                                                                                                                                                                                                                                                                                                                                             | 1 markah                         |
|    | <b>BAHAGIAN A</b>                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |
| 11 | i) X – Stomata / stoma<br>ii) Fungsi sel pengawal - mengawal pertukaran gas / mengawal pembukaan dan penutupan struktur stomata.<br>iii) Transpirasi / Respirasi / Fotosintesis                                                                                                                                                                                                                                                     | 1 markah<br>1 markah<br>1 markah |
| 12 | - Transpirasi ialah proses kehilangan air dari permukaan daun atau bahagian lain melalui stomata dan lentisel<br>- Proses kehilangan air dari tumbuhan ke atmosfera / udara<br>- Semakin tinggi kadar fotosintesis semakin tinggi kadar transpirasi<br>- Proses ini menyebabkan ruang vakum bertambah di dalam daun dan seterusnya meningkatkan kadar penyerapan karbon dioksida dari atmosfera oleh daun bagi tujuan fotosintesis. | 2 markah                         |
| 13 | i) Linear<br>ii) Palmat<br>iii) Kordat                                                                                                                                                                                                                                                                                                                                                                                              | 1 markah<br>1 markah<br>1 markah |
| 14 | a) Fotosintesis<br>b) Tenaga                                                                                                                                                                                                                                                                                                                                                                                                        | 1 markah<br>1 markah             |
| 15 | i) Sistem siku keluang<br>ii) Sistem segi tiga                                                                                                                                                                                                                                                                                                                                                                                      | 1 markah<br>1 markah             |
| 16 | i) Taburan / titisan / semburan<br>ii) Taburan / titisan / semburan<br>iii) Poket / alur                                                                                                                                                                                                                                                                                                                                            | 1 markah<br>1 markah<br>1 markah |
| 17 | i) Kawalan fizikal                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 markah                         |
| 18 | i) Kaedah penyejukan pendingin udara<br>ii) Kaedah penyejukan pendingin air                                                                                                                                                                                                                                                                                                                                                         | 1 markah<br>1 markah             |
| 19 | P : Produk/Harga/Rupa luaran<br>Q : Produk/Harga/Rupa luaran<br>R : Produk/Harga/Rupa luaran                                                                                                                                                                                                                                                                                                                                        | 1 markah<br>1 markah<br>1 markah |
| 20 | a) Jumlah kos = Kos tetap + kos berubah<br>= RM 9000 + RM3800<br>= <b>RM 12,800</b>                                                                                                                                                                                                                                                                                                                                                 | 1 markah                         |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |
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|   | <p>b) Kos luar jangka = <math>10/100 \times \text{RM}12,800</math><br/>= <b>RM1280</b></p> <p>c) Jumlah perbelanjaan = Jumlah kos + Kos luar jangka<br/>= <math>\text{RM}12,800 + \text{RM}1280</math><br/>= <b>RM14,080</b></p> <p>d) - Kos luar jangka merupakan perbelanjaan tambahan<br/>- Perbelanjaan luar jangkaan yang perlu ditanggung oleh pengusaha</p>                                                                                                                                                                                                                                                                                                                                                  | <p>1 markah</p> <p>1 markah</p> <p>1 markah</p>                                             |
|   | <b>BAHAGIAN B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                             |
| 1 | <p>a) NFT / DFT / Aeroponik / Aquaponik / Fertigasi / Pasang surut</p> <p>b) Lakaran</p> <ul style="list-style-type: none"> <li>- Lakaran (Bentuk) – 1 m</li> <li>- Kekemasan (Wajaran) – 1 m</li> <li>- Bahan kitar semula (Label BKS) – 2 m</li> <li>- Label lakaran – 5 m</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>1 markah</p> <p>9 markah</p>                                                             |
| 2 | <p>a) Urea / CIRP / MP</p> <p>b) 3 kesan sampingan:</p> <ul style="list-style-type: none"> <li>- Medium berasid</li> <li>- Kecederaan sel tumbuhan</li> <li>- Pokok mati</li> <li>- Pokok terbantut / rosak / gugur / layu</li> <li>- Mudah dibawa air (larut)</li> <li>- Mencemarkan air / tanah</li> <li>- Matikan / kurangkan organisma tanah</li> <li>- Kos tinggi / mahal</li> </ul> <p>c) FFJ / FPJ / FAA / CaP</p> <p>FFJ / FPJ / FAA</p> <ul style="list-style-type: none"> <li>- Sedia alat dan bahan</li> <li>- Potong bahan kepada saiz kecil</li> <li>- Timbang bahan</li> <li>- Masuk dalam mangkuk</li> <li>- Gaul bersama gula merah</li> <li>- Nisbah 1 : 1</li> <li>- Masuk dalam bekas</li> </ul> | <p>1 markah</p> <p>Mana-mana<br/>3 markah</p> <p>1 markah</p> <p>Mana-mana<br/>5 markah</p> |

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|   | <ul style="list-style-type: none"> <li>- Tutup dengan kertas</li> <li>- Ikat dengan getah, tutup dengan penutup</li> <li>- Simpan di tempat redup, 5-7 hari @ 2 minggu @ 1 bulan (FAA)</li> </ul> <p>Atau</p> <p>CaP</p> <ul style="list-style-type: none"> <li>- Sedia alat dan bahan</li> <li>- Bakar kulit telur dan hancurkan</li> <li>- Campur kulit telur dengan cuka beras</li> <li>- Nisbah 1 : 10</li> <li>- Tutup dengan kertas</li> <li>- Ikat dengan getah, tutup dengan penutup</li> <li>- Simpan di tempat redup, 30 hari</li> </ul>                                                                  | <p>Atau</p> <p>Mana-mana<br/>5 markah</p>                                                                                                                                                   |
|   | <b>BAHAGIAN B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                             |
| 3 | <p>a) Pendapatan</p> $= \text{RM } 1.50 \times 12000$ $= \text{RM } 18000.00$ <p>b) Jumlah perbelanjaan</p> <p>Jumlah Kos</p> $= \text{RM } 7376 + \text{RM } 2150 + \text{RM } 135$ $= \text{RM } 9661.00$ <p>Kos Luar Jangka</p> $= \text{RM } 9661.00 \times 10 \%$ $= \text{RM } 966.10$ <p>JP = JK + KLJ</p> $= \text{RM } 9661.00 + \text{RM } 966.10$ $= \text{RM } 10\,627.10$ <p>c) Keuntungan</p> $= \text{RM } 18\,000 - \text{RM } 10\,627.10$ $= \text{RM } 7372.90$ <p>d) Pulangan Modal (PM)</p> $= \text{RM } 18\,000 / \text{RM } 10\,627.10$ $= 1.69 @ 1.70$ <p>e) Titik Pulangan Modal (TPM)</p> | <p>1 markah<br/>1 markah</p> <p>1 markah<br/>1 markah</p> <p>1 markah<br/>1 markah</p> <p>1 markah<br/>1 markah<br/>(6markah)</p> <p>1 markah<br/>1 markah</p> <p>1 markah<br/>1 markah</p> |

|                                                                                                                                                                                                                                               | <p>= RM 10 627.10 / 12000<br/>= RM 0.88 / kg @ RM 0.89 / kg</p> <p>f) Teruskan / Ubahsuai / Gantikan</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 4                                                                                                                                                                                                                                             | <p>a) KAEDAH A / KAEDAH TANPA TANAH</p> <table><tr><th>KAEDAH A</th><th>KAEDAH B</th></tr><tr><td><p>1. Ruang</p><ul style="list-style-type: none"><li>- Perlu ruang kecil sahaja untuk tanam pelbagai jenis sayuran</li></ul></td><td><ul style="list-style-type: none"><li>- Perlu ruang besar untuk membuat batas dan menanam</li></ul></td></tr><tr><td><p>2. Penyakit</p><ul style="list-style-type: none"><li>- Kurang serangan serangga perosak</li><li>- Tiada penyakit bawaan tanah (pathogen)</li></ul></td><td><ul style="list-style-type: none"><li>- Mudah diserang serangga perosak</li><li>- Penyakit bawaan tanah (pathogen dan kulat)</li></ul></td></tr><tr><td><p>3. Pembajaan</p><ul style="list-style-type: none"><li>- Mudah diberikan</li><li>- Senang dikawal</li><li>- Menjimatkan baja</li><li>- Lebih efisien sebab terus kepada tanaman</li><li>- Menggunakan system pengairan</li><li>-</li></ul></td><td><ul style="list-style-type: none"><li>- Baja cepat hilang</li><li>- Sukar dikawal</li><li>- Pembaziran baja</li><li>- Baja dibawa lari air</li><li>- Pembajaan secara manual</li></ul></td></tr><tr><td><p>4. Rumpai</p><ul style="list-style-type: none"><li>- Tiada rumpai</li><li>- Tiada masalah rumpai</li><li>- Rumpai boleh dikawal</li><li>- Kurang persaingan merebut baja</li></ul></td><td><ul style="list-style-type: none"><li>- Banyak rumpai</li><li>- Masalah rumpai</li><li>- Rumpai tidak terkawal</li><li>- Berlaku persaingan merebut baja</li></ul></td></tr><tr><td><p>5. Kos</p><ul style="list-style-type: none"><li>- Jimat air</li><li>- Penggunaan air efisien kerana pembajaan serentak</li></ul></td><td><ul style="list-style-type: none"><li>- Pembaziran air</li><li>- Menggunakan percikan</li></ul></td></tr></table> | KAEDAH A | KAEDAH B | <p>1. Ruang</p> <ul style="list-style-type: none"><li>- Perlu ruang kecil sahaja untuk tanam pelbagai jenis sayuran</li></ul> | <ul style="list-style-type: none"><li>- Perlu ruang besar untuk membuat batas dan menanam</li></ul> | <p>2. Penyakit</p> <ul style="list-style-type: none"><li>- Kurang serangan serangga perosak</li><li>- Tiada penyakit bawaan tanah (pathogen)</li></ul> | <ul style="list-style-type: none"><li>- Mudah diserang serangga perosak</li><li>- Penyakit bawaan tanah (pathogen dan kulat)</li></ul> | <p>3. Pembajaan</p> <ul style="list-style-type: none"><li>- Mudah diberikan</li><li>- Senang dikawal</li><li>- Menjimatkan baja</li><li>- Lebih efisien sebab terus kepada tanaman</li><li>- Menggunakan system pengairan</li><li>-</li></ul> | <ul style="list-style-type: none"><li>- Baja cepat hilang</li><li>- Sukar dikawal</li><li>- Pembaziran baja</li><li>- Baja dibawa lari air</li><li>- Pembajaan secara manual</li></ul> | <p>4. Rumpai</p> <ul style="list-style-type: none"><li>- Tiada rumpai</li><li>- Tiada masalah rumpai</li><li>- Rumpai boleh dikawal</li><li>- Kurang persaingan merebut baja</li></ul> | <ul style="list-style-type: none"><li>- Banyak rumpai</li><li>- Masalah rumpai</li><li>- Rumpai tidak terkawal</li><li>- Berlaku persaingan merebut baja</li></ul> | <p>5. Kos</p> <ul style="list-style-type: none"><li>- Jimat air</li><li>- Penggunaan air efisien kerana pembajaan serentak</li></ul> | <ul style="list-style-type: none"><li>- Pembaziran air</li><li>- Menggunakan percikan</li></ul> | 1 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| <p>1. Ruang</p> <ul style="list-style-type: none"><li>- Perlu ruang kecil sahaja untuk tanam pelbagai jenis sayuran</li></ul>                                                                                                                 | <ul style="list-style-type: none"><li>- Perlu ruang besar untuk membuat batas dan menanam</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| <p>2. Penyakit</p> <ul style="list-style-type: none"><li>- Kurang serangan serangga perosak</li><li>- Tiada penyakit bawaan tanah (pathogen)</li></ul>                                                                                        | <ul style="list-style-type: none"><li>- Mudah diserang serangga perosak</li><li>- Penyakit bawaan tanah (pathogen dan kulat)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| <p>3. Pembajaan</p> <ul style="list-style-type: none"><li>- Mudah diberikan</li><li>- Senang dikawal</li><li>- Menjimatkan baja</li><li>- Lebih efisien sebab terus kepada tanaman</li><li>- Menggunakan system pengairan</li><li>-</li></ul> | <ul style="list-style-type: none"><li>- Baja cepat hilang</li><li>- Sukar dikawal</li><li>- Pembaziran baja</li><li>- Baja dibawa lari air</li><li>- Pembajaan secara manual</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| <p>4. Rumpai</p> <ul style="list-style-type: none"><li>- Tiada rumpai</li><li>- Tiada masalah rumpai</li><li>- Rumpai boleh dikawal</li><li>- Kurang persaingan merebut baja</li></ul>                                                        | <ul style="list-style-type: none"><li>- Banyak rumpai</li><li>- Masalah rumpai</li><li>- Rumpai tidak terkawal</li><li>- Berlaku persaingan merebut baja</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| <p>5. Kos</p> <ul style="list-style-type: none"><li>- Jimat air</li><li>- Penggunaan air efisien kerana pembajaan serentak</li></ul>                                                                                                          | <ul style="list-style-type: none"><li>- Pembaziran air</li><li>- Menggunakan percikan</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|---------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------|
|                                                                                             |  | -                                                                                 |                                                                   | 1 markah<br>1 markah |
|                                                                                             |  | 6. Hasil<br>- Lebih kuantiti hasil<br>- Hasil dituai lebih awal                   | - Kurang kuantiti hasil<br>- Hasil dituai lewat                   |                      |
|                                                                                             |  | 7. Racun kimia<br>- Tidak/ kurang menggunakan racun kimia/ racun serangga         | - Banyak menggunakan racun kimia/ racun serangga                  |                      |
|                                                                                             |  | 8. Tempat<br>- Penyediaan tempat sekali sahaja iaitu semasa awal projek penanaman | - Penyediaan tempat perlu lakukan setiap kali melakukan penanaman |                      |
|                                                                                             |  | 9. Buruh<br>- Kurang tenaga buruh untuk menguruskan kawasan penanaman             | - Menggunakan mekanisasi dan tenaga buruh yang banyak             |                      |
| b) Jumlah klorofil<br>Bentuk daun<br>Kedudukan daun<br>Anatomi daun<br>Pertumbuhan tumbuhan |  |                                                                                   |                                                                   |                      |