**ESALQ – USP - Departamento de Produção Vegetal**

**PROVA FINAL – LPV670 – CONTROLE DE PLANTAS DANINHAS**

**Data: Quarta feira – 28/06/2017**

**Nome\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Assinatura \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PARTE A: (0,6 pontos cada questão – total 3,0 pontos)**

1. **Quais as principais dificuldades para a implantação do controle biológico de plantas daninhas?**

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**2.Cite três das principais características que um herbicida deve possuir para ser aplicado em soqueiras de cana-de-açúcar, sobre a palhada, e no período seco do ano.**

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**3. Como ocorre a competição das plantas daninhas na cultura da soja? Como é feito o manejo com o herbicida glyphosate?**

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**4. De que forma o produtor de algodão normalmente faz destruição das soqueiras após a colheita da cultura?**

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**5. A recomendação de aplicação em pós-emergência de herbicidas em pastagens pode ser feita em qualquer época do ano? Explique.**

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**PARTE B: (0,2 pontos cada questão)**

**1.Cite e comente três características dos herbicidas inibidores da biossítense de carotenos.**

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**2. Oque é efeito “carry over” dos herbicidas utilizados na cultura de algodão?**

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**3. Como a umidade influencia a eficácia dos herbicidas aplicados ao solo?**

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**4. Correlacione primeira coluna com a segunda, numerando respectivamente a primeira:**

|  |  |  |  |
| --- | --- | --- | --- |
| **( )** | **Classificação quanto ao habitat da striga** | **1.** | **Folhas estreitas** |
| **( )** | **Classificação quanto ao tipo de planta das dicotiledôneas** | **2.** | **Planta parasita** |
| **( )** | **Herbicida que controla plantas daninhas folhas largas** | **3.** | **Latifolicida** |
| **( )** | **Denominação genérica do grupo de plantas da família da tiririca** | **4.** | **Folhas largas** |
| **( )** | **Classificação quanto ao tipo de planta dos capins em geral** | **5.** | **Ciperáceas** |
| **( )** | **Nome comum dado às plantas da família poaceae** | **6.** | **Gamíneas** |

**5. Cite e comente duas vantagens das culturas transgênicas.**

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**6. Descreva como o sistema de rotação de culturas em cana-de-açúcar, chamado de meiose, pode contribuir para o manejo de plantas daninhas na cana-planta.**

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**7. Como ocorre a seletividade dos herbicidas inibidores da PROTOX?**

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**8. Descreva um dos mecanismos pelo qual as plantas daninhas podem se tornar resistente ao glyphosate.**

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**9. Comente três características dos herbicidas mimetizadores das auxinas.**

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**10. De que forma um adjuvante pode auxiliar na eficácia de um herbicida aplicado à folha (pós-emergente)?**

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**11. Qual o mecanismo de ação dos herbicidas inibidores da fotossíntese? Como ocorre a seletividade?**

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**12. Qual o tipo de gota de pulverização (grossa ou fina) deve ser utilizada na aplicação de um herbicida em condições de pré-emergência? Explique a razão de sua resposta.**

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**13. Qual é o momento adequado (estádio de desenvolvimento da planta daninha) de aplicação do herbicida glyphosate para o controle de uma planta daninha perene, como a tiririca por exemplo?**

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**14. O que você entende por plantas tóxicas de pastagens? Cite um exemplo.**

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**15. Qual o posicionamento ideal de um herbicida aplicado ao solo?**

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**16. O PTPI é o período total de prevenção da interferência das plantas daninhas e compreende o período entre o início da competição até a colheita da cultura.**

**( ) falso ( ) verdadeiro**

**Justifique sua resposta:**

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**17. Quais as razões para a incorporação dos herbicidas no solo?**

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**18. Defina alelopatia e como normalmente é comprovado o fenômeno da alelopatia na agricultura.**

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**19. Qual a situação atual do uso de variedades de soja RR no Brasil?**

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**20. O que você entende por periculosidade ambiental dos herbicidas? Como você reconhece esta periculosidade?**

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**1) Cultura: cana-de-açúcar – cana-planta**

 **Espaçamento: 1,40 m entrelinhas**

 **Herbicidas: Boral(500 g de sulfentrazone/L) +Combine (500 g de tebuthiuron/L)**

 **Doses: 750 gde sulfentrazone/ha + 1000g de tebuthiuron/ha**

 **Pulverizador: tratorizado de barras - 15 bicos, pontas 110.02 operando a 45 lb/pol2**

 **Depósito: Capacidade do depósito do pulverizador: 2.000 L**

 **Velocidade do trator: 3,5 km/h**

 **Dados de conversão: 1 galão = 3,785 L e 1 alqueire = 2,42 ha**

**CALCULAR:**

**a) Consumo de calda/ha para aplicação em área total e bicos espaçados de 0,50 m entre si na barra de pulverização.**

**b) Quantidade dos produtos comerciais a serem colocados no depósito (2.000 L de calda) para uma aplicação em faixa de 40 cm sobre a linha da cultura, portanto, bicos espaçados de 1,40 m, e uma barra composta de 7 bicos.**

**c) Quantidade a ser comprada dos produtos para uma área de 2.750 alqueires, para aplicação do herbicida de acordo com o item b.**

**======================================================================**

**2) Cultura: citrus – em franca produção**

 **Espaçamento: 4x6 m entre plantas e linhas respectivamente**

 **Herbicidas: Gramoxone (200 g de paraquat/L) + Diuron (500 g de diuron/L)**

 **Dose: 500 g de paraquat/ha + 1.000 g de diuron/ha**

 **Depósito do pulverizador: 600 L**

 **Aplicação: faixas de 1,5 m de cada lado da planta**

 **Velocidade do trator: 3,0 km/h**

 **Barra de pulverização: 3 bicos, pontas 80.02 a 45 lb/pol2, espaçados de 0,50 m**

 **Dados de conversão: 1 galão = 3,785 L**

**CALCULAR:**

**a) consumo de calda/ha de citrus**

**b) quantidade de cada herbicida a ser colocada no depósito do pulverizador (600 L de calda), sabendo que as doses recomendadas dos herbicidas se referem à dose por hectare efetivamente aplicado**

**c) quantidade de cada herbicida a ser comprada para uma área de 80.000 pés de citrus.**

**BOA PROVA**