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

**PROVA FINAL – LPV0671 – CONTROLE DE PLANTAS DANINHAS**

**Data: Terça-feira – 21/06/2016**

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

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

**1.Descreva dois requisitos básicos que um inseto deve possuir para ser um potencial agente de controle biológico clássico de controle de plantas daninhas?**

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**2.Comente suscintamente duas características físico-químicas que possibilita a aplicação de um herbicida residual durante um período de alta quantidade de chuva e umidade no solo.**

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**3. Explique em que momento normalmente é aplicado o glufosinato de amônio no controle de plantas daninhas em uma cultura de algodão transgênico resistente ao herbicida glufosinato de amônio?**

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**4. Explique quando normalmente (época do ano) é feito o controle de plantas daninhas na cultura do café, e as razões para a aplicação nesta época do ano.**

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**5.Por que o produtor de cana-de-açúcar aplica herbicidas em soqueiras durante o período seco do ano?**

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

**1.Oque é fotodecomposição e volatilização de um herbicida residual, e qual o procedimento operacional adotado na aplicação deste herbicida com objetivo de evitá-las?**

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**2. Quando normalmente é aplicado o herbicida clomazone (pré ou pós-emergência) na cultura de algodão, e qual o procedimento utilizado para aumentar sua seletividade para a cultura?**

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**3. Explique o princípio de funcionamento da seletividade de posição de um herbicida para a cultura.**

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

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| **( )** | **Reproduz-se por rizomas, estolhos e sementes** | **1.** | **Capim-amargoso** |
| **( )** | **Umas das formas de propagação é o tubérculo** | **2.** | **Falsa-serralha** |
| **( )** | **É resistente ao glyphosate** | **3.** | **Grama-seda** |
| **( )** | **Inflorescência na forma de capítulo** | **4.** | **Corda-de-viola** |
| **( )** | **Planta volúvel, trepadora** | **5.** | **Tiririca** |
| **( )** | **Panta com folhas compostas** | **6.** | **Fedegoso** |

**5. Cite uma razão (mecanismo de resistência) por que a planta daninha buva apresenta de resistência ao herbicida glyphosate?**

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**6. Cite e comente uma medida preventiva de seleção de planta daninha resistente ao glyphosate na cultura de soja.**

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**7. Descreva uma situação em pastagens em que você recomendaria a aplicação de herbicida formulado na forma granulada?**

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**8. Selecione qual das duas alternativas abaixo contribui para a seleção de biótipos de plantas daninhas resistentes. Em seguida descreva as razões de sua escolha.**

**( )Rotação de herbicidas nas culturas em sucessão com o mesmo mecanismo de ação**

**( ) Rotação de culturas, diversificando o sistema**

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**9. Destaque uma forma como poderia ser controlado o capim-amargoso resistente ao glyphosate na cultura de soja.**

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**10. Quais são as duas propriedades químicas (polaridade) de uma molécula de adjuvante utilizada com a finalidade de espalhante adesivo?**

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**11. Explique as razões dos sintomas rápido de morte da planta provocada pelos herbicidas cujo mecanismo de ação é a inibicçãoda Protox (exemplo herbicida flumioxazin).**

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**12. Por que nas aplicações de herbicidas que apresenta translocaçãosimplastica (floema) é recomendado o uso de pulverizações com diâmetro médio volumétrico de gotas (DMV) maiores?**

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**13. Cite uma característica importante de um herbicida aplicado em área de cana colhida após a queima do canavial durante o período de baixa umidade no solo, para que sua eficácia seja adequada.**

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**14. Cite dois atributos físico-químico do solo que influenciam o comportamento de um herbicida aplicado ao solo.**

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**15.Qual a influência da quantidade de argila no solo para a escolha da dose dos herbicidas residuais?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**16. Complete a frase:**

**“A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (alelopatia ou competição) é um efeito químico e a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (alelopatia ou competição) um efeito físico de relação entre as plantas”**

**Justifique sua resposta:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**17.Explique como a meia vida de um herbicida pode afetar seu comportamento no solo?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**18. Qual a relação entre o tamanho de gota da calda de uma pulverização e o potencial de deriva de uma aplicação de herbicida.**

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**19. Qual o principal período de ocorrência da buva(época do ano) em uma sucessão de culturas soja/milho. Explique sucintamente uma forma de controle da buvaneste período?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**20. “A resistência de plantas daninhas surge em função da mutação causada pelo herbicida após anos de aplicação deste mesmo herbicida em uma população de plantas daninhas”.**

**Esta frase é: ( ) falsa ou ( ) verdadeira. Explique as razões de sua resposta:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**PARTE C: (1,5 pontos para cada problema – reponder na folha de papel almaço anexa)**

**1) Cultura: algodão**

 **Espaçamento: 1,00 m entrelinhas**

 **Herbicidas: Gamit(360 g de clomazone/L) + Diuron(800 g de diuron/kg)**

 **Doses: 720 g de clomazone/ha + 0,8 kg de diuron/ha**

 **Pulverizador: tratorizado de barras - 20 bicos, pontas 80.02 operando a 45 lb/pol2**

 **Depósito: Capacidade do depósito do pulverizador: 4.000 L**

 **Velocidade do trator: 6,0km/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 (4.000 L de calda) para uma aplicação em faixa de 20 cm sobre a linha da cultura, portanto, bicos espaçados de 1,00 m, e uma barra composta de 10 bicos.**

**c) Quantidade a ser comprada dos produtos para uma área de 1.500 alqueires, para aplicação do herbicida de acordo com o item b.**

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

**2) Cultura: café – franca produção**

 **Espaçamento: 2x4 m entre plantas e linhas respectivamente**

 **Herbicidas: Roundup WG (720 g de glyphosate/L) + Gesaprim (500 g de atrazina/L)**

 **Dose: 1.440 g de glyphosate/ha + 1.500 g de atrazina/ha**

 **Depósito do pulverizador: 400 L**

 **Aplicação: faixas de 1,0 m de cada lado da planta**

 **Velocidade do trator: 4,0 km/h**

 **Barra de pulverização: 2 bicos, pontas 80.03 a 45 lb/pol2, espaçados de 0,50 m**

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

**CALCULAR:**

**a) consumo de calda/ha de café**

**b) quantidade de cada herbicida a ser colocada no depósito do pulverizador (400 L de calda), sabendo que as doses recomendadas dos herbicidas referemse à dose por hectare efetivamente aplicado**

**c) quantidade de cada herbicida a ser comprada para uma área de 100.000 pés de café.**

**BOA PROVA**