PLANT MOLECULAR FARMING (BT- 613)

7-11 = 8/10

MID-SEMESTER EXAM

Total Marks: 30 Date: 4th March 2018 Duration: 2 hrs SECTION A (Tick mark the right answer for any ten questions) ${\mathscr L}$ Leukotoxin fusion protein antigen vaccine for shipping fever is successfully farmed in following crops [1] (C) white clover (D) corn (A) alfalfa (B) tobacco [1] 2. Golden rice grains accumulate excess of (D) provitamin A (B) vitamin E (€) β-carotene (A) lycopene [1] 3. Guttation phenomenon is more prevalent in following condition (B) reduced transpiration (A) low root pressure (e) low water absorption (D) intense sunlight [1] 4. Recombinant protein expression through chloroplast genome allows (A) improper glycosylation (B) high yield of recombinant protein (C) risk of gene silencing (D) transgene polluting other plant species 5. Following plant organ provides increased stability of expressed recombinant protein [1] (C) fruits (D) leaves (A) roots (B) seeds [1] 6. Efficient secretion of recombinant proteins from transformed plant cell suspension depends on (A) appropriate targeting signal (B) permeability of the plant cell wall to macromolecules (C) all of the above (D) none of the above ア. Following host crop expressing a recombinant protein, allows minimal risk of polluting food or feed chain [1] (Ø) tobacco (B) alfalafa (C) maize (A) tomato $\chi^{8.}$ Following plant is best suitable for oral delivery of vaccines for foot and mouth disease [1] (e) white clover (D) banana (A) alfalfa (B) spinach 9. Recombinant proteins will be relatively unstable if they are expressed in [1] (B) tobacco (D) cassava (C) soybean (A) corn [1] 10. Human lactoferrin expressed in plants are used for (D) natural defense (B) digest food lipids (C) vaccination (A) drug delivery [1] 11, Hirudin protein is a known (B) digestive enzyme (C) anticoagulant (D) anti-bacterial agent (A) collagen \star 12. Following plant is ideal for production of low value recombinant proteins (C) white clover (D) tomato (B) spinach (A) tobacco

Roll no: 1741**6**6006



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|--|---|---|------------------------------------|---------------------------------|------------|
| SECTION A (Tick | mark the right | answer for any | ten questio | ns) | |
| | | | | y farmed in following crops | |
| (A) alfalfa | (B) tobacco | (C) white clover | (D) corn | y farmed in following crops | |
| | | | (5) com | | / \ |
| (2) Golden rice grains ac | | | | | [1] |
| (A) lycopene | (B) vitamin E | (C) β-carotene | (D) provitam | in A | X |
| 3. Guttation phenomeno | on is more prevaler | | | | [1] / |
| (A) low root process (C) low water | ressure absorption | (B) reduced trans (D) intense sunlig | | | |
| 4. Recombinant protein | expression through | n chloroplast genom | e allows | | [1] |
| (A) improper g (B) high yield o (C) risk of gene | lycosylation of recombinant pro | otein | | | |
| 5. Following plant organ | provides increased | stability of express | ed recombina | nt protein | [1] |
| (A) roots | (B) seeds | (C) fruits | (D) leaves | The process | |
| (D) none of the | targeting signal of the plant cell vove above | wall to macromolect | ules | | <u>[1]</u> |
| . Following host crop exp (A) tomato | ressing a recomb (B) alfalafa | inant protein, allow maize | s minimal risk (D) toba | of polluting food or feed chair | n [1]X |
| Following plant is best s | suitable for oral de | elivery of vaccines f | or foot and m | outh disease | [1] |
| (A) alfalfa | (B) spinach | (C) white clover | (D) banar | na | X |
| Recombinant proteins v (A) corn | vill be relatively u | nstable if they are ((C) soybean | expressed in (D) cassa | ava | [1] |
| Human lactoferrin expr | essed in plants ar | e used for | | | [1] |
| (A) drug delivery | (B) digest fo | | accination | (D) natural defense | [1] |
| Hirudin protein is a kno (A) collagen | wn (B) digestive er | nzyme (6) ant | ticoagulant | (D) anti-bacterial agent | [1 _ |
| following plant is ideal f | or production of (B) spinach | low value recombii (C) white clove | | tomato | ~ |

Roll no: /40/06009

12.

Date: 4th March 2018

ANUSUA SARKAR

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Signature: Anusua Xarkar