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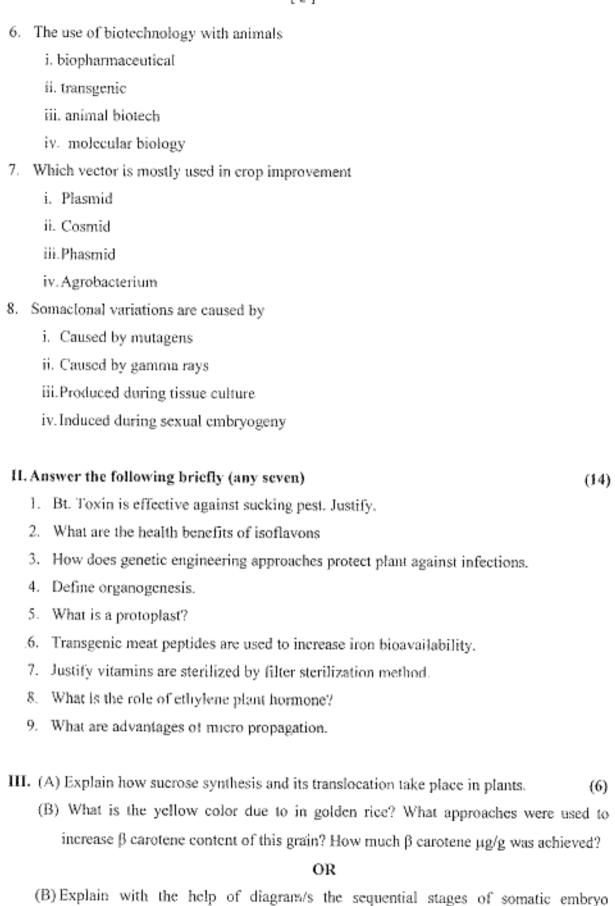
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SARDAR PATEL UNIVERSITY M.Sc. (ILSC) HI SEMESTER FBT EXTERNAL THEORY EXAMINATION

FRIDAY, DATE: 07/12/12 TIME: 2.30PM TO 5.30 PM

PH03EFBT03: NUTRITIONAL BIOTECHNOLOGY

Total Marks: 70 Choose the correct answer from the following (8) Linseed oil is rich in i. Oleic acid ii. Stearic acid iii. Alpha linolenic acid iv. None of the above Green tea contains epicatechin ii. quercitin iii.epicatechin gallate iv, all of the above Fatty acid synthesis occurs in plant organelle cytosol ii. plastid iii.mitochondria iv vacuole 4. Hormone pair which is required for callus differentiation Auxin and cytokinin ii. Auxin and ethylene iti. Auxin and absecie acid iv. Cytokine and gibberellins 5. Callus is A tissue that form an embryo An insoluble carbohydrate iii. Tissue that grows to form an embriod iv. Unorganized growing mass of cells maintained in culture (PTO)



(6)

development.

IV. (A)Write a short note on the importance of transgenic plants. (6) (B)Write a note on the approaches carried out for improving milk quality by biotechnology. (6)OR (B) Write a note on the genetic engineering approaches used to improve meat quality. V. (A)Explain in details the basic steps involved in the production of plants through tissue culture. (B) Explain in details how Agrobacterium tumefacters help in transformation of plant cells? What are binary vector how do they help in genetic engineering of plants? OR (B) Write a note on the role of biotechnology involved in production and improvement of Bt. cotton. VI. (A) Write a note on micro propagation its applications? Mention the advantages and disadvantages of micro propagation over other conventional propagation techniques? (6)(B) Write a note on plant growth promoters. (6) OR

(B)Write a note on the different DNA transfer method used in plants.
