OR / DeLeJee

Describe embryonic stem cell method to obtain transgenic animals.

YeeCekeâ mšce keâeMee eJeeOe Éejle Ševmepeevekeâ peeJe Øeehle keâjve keâe eJeeOe keâe JÙeeKÙee keâj~

5. Describe applications of recombinent DNA Technology. 11

ejkeâeyeveCš [e.Sve.S. Škeveeueepee keâ DeveØeÙeeiee keâe JeCeve keâj~

OR / DeLeJee

What are different methods of Sterilization. Write their principles?

evepeceekeâjCe keâe eJeeYeVe eJeeOeÙee keÙee n SJe Gvekeâ emeæevle eueeKeS~

A (Printed Pages 4)

Roll No. _____

S-629

B.Sc. (Part-III) Examination, 2015

BIOTECHNOLOGY

Second Paper

(*Animal and Plant Biotechnology*)

Time Allowed : Three Hours] ***[Maximum Marks : 75***

Note : Answer all the five questions.

meYee heeÙe ØeMvee keâ Gòej oeepeS~

1. Write short notes on the following: 3×10=30

evecveeueeKele hej mee#ehle eŠhheeCeÙee eueeKeS :

(a) Somaclonal Variations

keâeeÙekeâkeueevee eJeeYeVeleeS

(b) Applications of protoplast fusion

peeJeõJÙe meÙeiceve keâ DeveØeÙeeie

(c) Serum free media

meejce ceòeâ ceee[Ùee

(d) Applications of plant tissue culture.

heeohe Tlekeâ meJeOeve keâ DeveØeÙeeie

(e) Applications of monoclonal antibodies

Skeâkeueevee Øeelej#ee keâ DeveØeÙeeie

(f) Micro propagation

me#ce Øepeveve

(g) Cell line

meue ueeFve

(h) Common laboratory contaminants.

ØeÙeeieMeeuee ce meeceevÙe o<ekeâ

(i) Lipofaction method of gene transfer

peeve mLeeveelejCe keâe ueeFheeheâkeMeve eJeeOe

(j) Single cell protein

Skeâue keâeeMekeâe ØeeŠeve

2. Differentiate between Sub-Culture methods of anchorage dependent cell line and suspension culture. What are the applications of animal cell culture? 11

Skeâjpe eveYej meue ueeFve SJe memheMeve meJeeOele meue ueeFvee keâ heve: meJeOeve keâe eJeeOeÙee ce Devlej yeleeFS~ peeJe keâeMee meJeOeve keâ DeveØeÙeeie keÙee n?

OR / DeLeJee

Describe the process up to embryogenesis in plant system.

heeohee ce YeCe Glheeòe lekeâ keâe Øee>eâÙee keâe JeCeve keâj~

3. Discuss different methods of gene transfer in mammals. 12

mleveOeeejÙee ce peeve mLeeveelejCe keâe eJeeYeVe eJeeOeÙee keâe JeCeve keâj~

OR / DeLeJee

Describe the composition of animal cell culture media.

peeJe keâeMee meJeOeve keâ ceee[Ùee keâ DeJeÙeJee keâe JeCeve keâj~

4. Describe cold trypsinisation and hot trypsinisation methods of obtaining animal cell line. 11

peeJe keâeMee ueeFve Øeehle keâjve keâe Meele SJe iece eŠhemeveeFpeMeve eJeeOeÙee keâe JeCeve keâj~