S.R.R. & C.V.R. Government Degree College (A)

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017

Machavaram, Vijayawada, Krishna District, AP-520 004

DIGITAL CLASSES 13.12.2019



DEPARTMENT OF BOTANY

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DEPARTMENT OF BOTANY

Dates	13.12.2019
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department
Nature of activity (seminar/Workshop/Extn. Lecture etc.	Digital class
Title of the Activity	Gene Cloning vectors
Name of the Department/Committee	Department
Details of Resource Persons (Name , Designation etc.,)	Mrs D. Jyothi Incharge Dept of Botany Ms V. Naga Lakshmi
No of students participated	60
Name of the Lecturers who planned & conducted the activity	Mrs D. Jyothi Incharge Dept of Botany Ms V. Naga Lakshmi
Remarks	This Digital class was very beneficial to the students of I, II and III B.Sc BZC T.M and E.M students.

. 55 DIGITAL CLASSES. Digetal classes were taken for students of J, TI & TI BZC studends. Digétal class Date: Dec 13/2019 Topic : Gene cloning voclors Lecturer : V. Nagalakshme students attended. 1. P. Madhavi 9 T. Vagan the 10 Car Ram 2. P. Likitha 3. B. Kalyan Raw 11 P. Madhavi M. Jayarree 12 J- Sailcrishne 4 13 Be Kalyan Row. 14 Swajala. 15 Naga Raji 12. Jyorthi. T. Anusha Wadhuniheite 6 7 Kelyn Rab 8 Sai Pam

Concept:

Vectors can be a plasmid from the bacterium, a cell from the higher organism or DNA from a virus. The target DNA is inserted into the specific sites of the vector and ligated by DNA ligase. The vector is then transformed into the host cell for replication.

The cloning vectors should possess an origin of replication so that it can self-replicate inside the host cell. It should have a restriction site for the insertion of the target DNA.

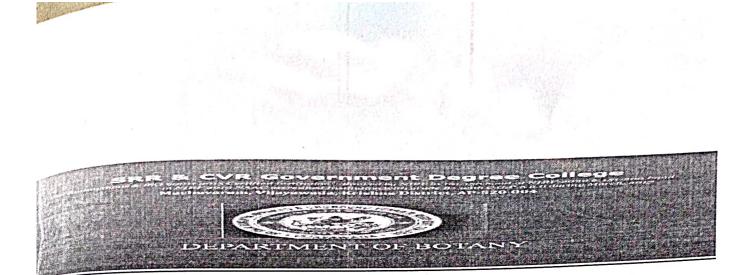
It should have a selectable marker with an antibiotic resistance gene that facilitates screening of the recombinant organism. It should be small in size so that it can easily integrate into the host cell. It should be capable of inserting a large segment of DNA. It should possess multiple cloning site . It should be capable of working under the prokaryotic and eukaryotic systems.

Types of Cloning Vectors are plasmids, Bacteriophages, Phagemids, Bacterial Artificial chromosomes, Yeast Artificial Chromosomes, Cosmids, Retroviral Vectors, Human Artificial Chromosomes

Cloning vectors are utilized to insert foreign DNA into another cell and create multiple copies of the same. The foreign DNA is duplicated and expressed utilizing the host cell machinery. It amplifies one copy of DNA into multiple copies.

RTMENT OF BOTANY

The Advantages of Digital Education are that students can learn personally. Digital learning is Easier to access and can learn at their own pace. Digital classes are a kind of Blended, Competency-based and Collaborative learning. Digital classes can give students a positive new learning experience. Students learnt the concept of gene cloning vectors through Digital class.



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	STUDENT SIGNATURES AND FEEDBACK					
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