 -

No. of Printed Pages : 2

[110]

SARDAR PATEL UNIVERSITY

T.Y.B.Sc. SEMESTER-5 GENETICS AND BIOTECHNOLOGY USO5CZOO23

DATE: 28/11/2020, Monday TIME: 2-00 to 4-00 pm. MARKS: 70
1. The phenotypic ratio obtained due to dominant epistasis is
10. The that induce cancer are called transforming viruses. a) DNA virus b) RNA virus c) none of the above Q-2 Fill in the blanks and true or false (8)
 The purple colored flowers in sweet pea Lathyrusodoratus are produced due to Haemophilia is caused by genes. The resultant pairs of homologous chromosomes due to synapsis are called The substitution mutation which involves the replacement of purine with pyrimidine i called

True or False

- 1. The non coding sequence are called exors.
- 2. Sub cultured primary culture gives cell line.
- 3. Normal fertility the sperm concentration in human semen should be 15-20 million per ml.
- 4. The tumour having the ability to grow indefinitely and invade surrounding healthy tissues is called benign.

Q-3Short Questions (Answer any 10) (20)

- 1. Define intra allelic or allelic genetic interaction.
- 2. What is hypostaticgene.
- 3. Define linkage and crossing over .
- 4. What are kappa particles
- 5. Define Duplication and inversion
- 6. What is the function of microtome
- 7. Mention the uses of Radioimmunoassay
- 8. What is the function of sense strand
- 9. What is RNA splicing
- 10. What are Shine Dal garnosequence
- 11. What is a substrate
- 12. Define cancer

Q-4 Long answer questions (Answer any 4)	(32)
1. Write a short note on	(8)
a) Dominant epistasis	(0)
b) Duplicate recessive genes or complimentary genes.	
2. Write a short note on	(8)
a) Shell coiling in Lemnea	(0)
b) Kappa particles in Paramecium.	
3. Write a short note on the types of structural changes in chromosomes due to	
Mutation	(8)
4. Describe Eugenics .Describe in brief the positive and negative eugenics	(8)
5. Describe in brief protein synthesis in prokaryotes	(8)
6. Write a short note on	(8)
a) Electron microscopy	(*)
b) Radioimmunoassay	
7. Write a short note on	(8)
a) Cell culture b) organ culture	
8. What is in vitro fertilization. Describe types and causes of infertility	(8)