Yashwantrao Chavan College of Science, Karad B.Sc. – III Paper X – Animal cell culture

Question Bank

$\mathbf{Q}\,\mathbf{1})$ Answer the following questions choosing the correct alternatives given below them

1) is not the major function of	the serum
a) Promotion of tuber and bulk	formation b) stimulate cell growth
c) Enhance cell attachment	d) provide transport protein
2) The production of complete animal	s from somatic cell of an animal is called
a)Gene cloning	b) animal cloning
c) cll cloning	d) all of these
3) The first successfully cloned anima	l was
a) monkey	b) gibbon
c) sheep	d) rabbit
4) are the techniques used for	or embryo culture
a) Organ culture on plasma clo	ts b)Organ culture on agar
c) Whole embryo culture	d) All of these
5) The technique of organ culture ma	y be divide on the basis of employing
a) Solid medium	b) liquid medium
c) both solid and liquid mediur	m d) semi solid
6) The first vaccine developed from a	nimal cell culture was
a) Hepatitis B vaccine	b)influenza vaccine
c)small pox vaccine	d) polio vaccine
7) In late 1040's grew poliom	yelitis virus in culture.
a)Enders,Weller and Robbins	b) Alecs carrel
c) Ross Harisson	d) Jolly
8)is added in medium to re	educe oxygen toxicity
a) Boron	b) Silicon
c) Phosphorous	d) selenium

9) The term is used when e	ach colony grows from a single clone.		
a) Seeding efficiency	b) cloning efficiency		
c) platting efficiency	d)Population efficiency		
10) In clonogenic assay, cell viability i	s determined by		
a) Plating efficiency	b) labeled chromium		
c) nigrosine green	d) trypan blue		
11) Low serum ,highe cell dencity and	l availability of growth factors in medium leads to		
a) Cell proliferation	b) cell differntiation		
c)Cell growth	d) cell doubling		
12) Avian cells are cultured at	temprature		
a) 32°c	b) 4°c		
c)40 °c	d) 38.5°c		
13) Doubling time for finite cell line ra	anges fromhrs		
a) 24-96	b) 12-14		
c) 20-25	d) 4-11		
14) Animal used for large scale produc	ction of recombinant protein is called as		
a) biostrater	b) biocatalyst		
c) bioreacter	d) bioamplifire		
Q 2) Long Answer			
1) Explain different types of methods	used for gene transfer?		
2) What is stem cell culture?			

- 3) Define organ culture and give its types?
- 4) Explain monoclonal antibody production by Hybridoma technology
- 5) Give details account of enzymatic method for tissue disaggregation
- 6) What is animal cell culture? Describe natural media used for culturing animal cells

Q 3) Short notes

- 1) Serum containing media
- 2) Haemocytometer
- 3) Culture based vaccines
- 4) Transgenic animal

- 5) Suspension culture
- 6) Application of animal cell culture
- 7) Electroporation
- 8) Types of stem cell
- 9) Karyotyping
- 10) Application of animal cell culture