Kalyani Mahavidyalaya Part-III Honoures Test Examination-2017 Molecular Biology & Biotechnology Paper - IX

Fullmarks-50

Time – 2hrs

1. Answer any ten.	1 x 10 = 10
a) ICSI is Inter Cell Sperm Injection. (T/F)	
b) GATT is General Agreements on Trade and Tariff. (T/F)	
c) What is process patent?	
d) What is DMEM?	
e) Which function does the Ri plasmid perform?	
f) Germplasm bank is In Situ conservation. (T/F)	
g) For successful IVF result HCG level is measured. (T/F)	
h) What is the role of <i>E. coli</i> as bio indicator?	
i) In which stage of tissue culture activated charcoal is used?	
j) Bharatpur bird park is a type of sanctuary. (T/F)	
k) What is Trypan blue?	
1) What is secondary cell culture?	
2. Answer any ten.	2 x 10 = 20
a) What is product patent and national patent?	
b) Write down the role of H_2CO_3 in ATC medium.	
c) What is bio diversity hot spot region?	
d) What are ovum collection and embryo transfer?	
e) What do you mean by somatic and germ line gene therapy?	
f) Why discoveries are not patentable?	
g) What is plasmid disarming? Give an example.	
h) What are opines?	
i) What is the role of pH indicator in animal tissue culture media?	
j) What are copyright and royalty?	
k) Why Phase contrast microscope is used in animal tissue culture practise?	
l) What is Alpha and Beta diversity.	
3. Write down any four	5 x 4 = 20
i) What are the criterias for patenting – discuss. What is International patent? $4+1 = 5$	

ii) What do you mean by primary culture and primary cell line? What are adhering and non adhering cells? What is suspension culture? 2+2+1=5

iii) What is the role of Glucose oxidase in blood glucose measurement? Give an example of a biosphere reserve forest? 4 + 1 = 5

iv) What is male sterility? What is surrogate mother? What are the applications of gene therapy? 1 + 2 + 2 = 5

v) What is crown gall disease? What is the role of Vir genes? What is acetosyringone? 1 + 2 + 2 = 5