



S-2621

M. Sc. - I (Sem. I) (Biosciences) Examination

March / April - 2011

BIO - 101 : Advanced Cell Biology

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशवैल निशानीवाणी विगतो उत्तरवडी पर अवश्य क्षभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
← M. Sc. - 1 (Sem. 1) (Biosciences)	<input type="text"/>
Name of the Subject :	<input type="text"/>
← BIO - 101 : Advanced Cell Biology	<input type="text"/>
← Subject Code No. : <input type="text"/> 2 <input type="text"/> 6 <input type="text"/> 2 <input type="text"/> 1 ← Section No. (1, 2,.....) : <input type="text"/> NIL	<input type="text"/>
	Student's Signature

- (2) Figures to the **right** indicate full marks of the question.
(3) Draw neat and labeled diagrams whenever necessary

- 1 Write notes on : (any **two**) 18
a) Fixation at LM and TEM
b) G,Q, cbanding techniques
c) Ultra structure of lysosomes.
- 2 Write detailed notes on : (any **two**) 18
a) Preparation of mitotic chromosome of rat.
b) Human lymphocyte and fibroblast culture.
c) Different types of microtomes and its uses.
- 3 Give comprehensive account : (any **two**) 18
a) Cell cycle details ,check points and its control.
b) Apoptosis and cancer.
c) Tumor suppressor gene.
- 4 Write notes on : (any **three**) 16
a) Prokaryotes and eukaryotes
b) Functions of lysosomes
c) 47,XX or XY+21
d) Telomere.