



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

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[200]