



R-3801-02

M. Sc. Biotechnology (Sem. III) (ATKT) Examination

May / June - 2010

IBT - 302 : Botany - II

(New Course)

Time : 3 Hours]

[Total Marks : 70

R-3801

Instructions :

(1)

नीचे दृशावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
M. SC. BIOTECHNOLOGY (SEM. 3) (ATKT)	<input type="text"/>
Name of the Subject :	<input type="text"/>
IBT - 302 : BOTANY - 2 (NEW)	<input type="text"/>
Subject Code No. : <input type="text"/> 3 <input type="text"/> 8 <input type="text"/> 0 <input type="text"/> 1	<input type="text"/>
Section No. (1, 2,.....) : <input type="text"/> 1	
Student's Signature	

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagrams whenever necessary.
(4) Both sections must be written in **separate** answer books.

- 1 Answer the following : 5
- (i) Define Water potential.
 - (ii) Define Wilting coefficient.
 - (iii) What are Hydathodes?
 - (iv) Define photorespiration.
 - (v) Write the function of enzyme Chlorophyllase.

- 2 Explain in detail process of cellular respiration. 10

OR

- 2 Describe the following :
- (a) Structure of Mitochondria. 5
 - (b) Write brief account on types of transpiration. 5

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[Contd...

- 3 (a) Enlist the significance of micro elements in plant nutrition. 5
- (b) In brief write various photosynthetic pigments found in plants. 5

OR

- 3 Explain the following :
- (a) Types of commercial Auxins and its physiological functions. 5
- (b) Active and Passive Transport. 5
- 4 Write brief notes on following : (any two) 10
- (a) Mechanism of stomatal opening and closing
- (b) Exosmosis and Endosmosis
- (c) Internal factors affecting photosynthesis.

R-3802

Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="text"/> M. SC. BIOTECHNOLOGY (SEM. 3) (ATKT)	<input type="text"/> Student's Signature
Name of the Subject :	
<input type="text"/> IBT - 302 : BOTANY - 2 (NEW)	
Subject Code No. : <input type="text"/> 3 <input type="text"/> 8 <input type="text"/> 0 <input type="text"/> 2	Section No. (1, 2,.....) : <input type="text"/> 2

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagrams whenever necessary.
(4) Both sections must be written in **separate** answer books.

- 1 Answer the following : 5
- (i) Define Porous wood.
(ii) Define Abnormal growth.
(iii) Define Photo sensitivity.
(iv) Name the enzyme associated with Xylem elements.
(v) Define Stress.

- 2 Explain secondary growth in Bougainvillea and Boerhaavia. 10

OR

- 2 Describe the following :
- (a) Various methods of overcome seed dormancy. 5
(b) Plant responses to environmental pollutants. 5
- 3 (a) Explain abnormal secondary growth in Salvadora stem. 5
(b) Write in brief about basic structure of wood. 5

OR

- 3 Explain the following :
- (a) Flavanoids and Carotenoids as photoreceptors. 5
(b) Movement of plants away from stimulus. 5

- 4 Write brief notes on following : (any two) 10
- (a) Photo inductive cycles.
 - (b) Florigen concept
 - (c) Histogen and Tunica corpus theory.
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