(1)

SYBSC Botany- CBSGS-SEM-III
Paper-III-Revised
Date of Exam - April 2018
Code- 33018

Set- I KEY		
Q 1. A.	**MCQ**	**Marks**
i.	Garden	1
ii.	Water garden	1
iii.	focal point	1
iv.	formal garden	1
v.	Laminar Air Flow	1
vi.	shoots	1
vii.	Ligase	1
viii.	Chi square test	1
ix.	Database	1
x.	Basic Local Alignment Search Tool	1
Q 1. B.	**Answer the following in a sentence or two.**	
i.	Hedge- • Definition • Example (Name of a plant)	2
ii.	Organogenesis- Description	2
iii.	Enzyme – • 2 Names • Source of the enzymes	2
iv.	Any two (Information, Entertainment, Communication, Marketing etc,)	2
v.	Perfect positive correlation- Description	2
Q. 2.	**Answer any two of the following**	
i.	Horticulture branches: Description with example of • Pomoplogy • Olericulture • Fioricuiture • Nursery Culture • Landscape gardening	 2 2 2 2 2
ii.	Botanical garden: • Description • Functions	 2 8
iii.	Garden Locations: Description i) Edge (Description and Example) ii) Flower bed (Description and Example) iii) Lawn (Description and Example) iv) Avenue(Description and Example)	2 2 2 2 2
iv.	Sanjay Gandhi National Park: • Introduction • Flora and Fauna • Tourist site • Conservation	10

(2)

Q. 3.	**Answer any two of the following**	
i.	• Sterilization: definition • Sterilization of glassware and instruments • Sterilization of medium	2 4 4
ii.	Anther culture: • definition • Protocol • Importance/ significance	 2 5 3
iii.	• r-DNA technology: description • Steps involved in r-DNA technology	2 8
iv.	• Cloning vectors: description • Plasmid: description • Plasmid: diagram	2 4 4
Q. 4.	**Answer any two of the following**	
i.	Coefficient of correlation • Data table • Formula and calculation • Result • Conclusion	 4 4 1 1
ii.	Calculate X2 • Problem identification, setting up of Null and alternate hypothesis • Formula and calculation • Conclusion	 4 4 2
iii.	• Tools of retrieving a biological data: description • ENTREZ: description and use	5 5
iv.	Bioinformatics programme in India • Under graduation Programs • Post graduation Programs • Diploma programs • Ph.D research program	10
Q. 5.	**Write short notes on any FOUR of the following.**	
i.	Informal Garden: Description with example	5
ii.	Importance of horticulture: • With respect to providing food • With respect to impact on environment	5
iii.	Ultra filtration: Description and method	5
iv.	Nucleases: Description and function	5
v.	Biological Databases: Description and use	5
vi.	EBI: Expanded form Description	5