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SYBSC Botany-CBSGS-SEM-III

Paper-I-Revised

Date of Exam - Oct- 2018

Solution

Code- 54653 . (1722)

Q.1A Choose the correct option and Rewrite the sentence.		10
i	b.marine water	
ii	a. Musci (Bryopsida)	
iii	b. Mechanical support	
iv	a. Papilionaceae	
v	a. Superior ovary.	
vi	<i>Helianthus annus</i>	
vii	a) Family	
viii	a) Michael Tswett	
ix	a) Solvent	
x	a) Liquid	
Q.1B Answer in one or two sentences		10
i	To keep sargassum upright <i>Sargassum</i> and filled with gases.	2
ii	vegetative reproduction in <i>Funaria</i> -Tubers, Apospory, Gemmae	2
iii	Define Capitulum inflorescence.	2
iv	<i>Cocos nucifera</i> -fruit edible, fibre-ropes mats.	2
v	Vasculum, Herbarium press etc.	2

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<b>Q.2</b>	<b>Answer any two of the following</b>	<b>20</b>
i	sexual reproduction in <i>Sargassum</i> . Antheridium, oogonia	5 5
ii	The internal structure of sporophyte in <i>Anthoceros</i> - foot, intercalary zone. capsule, capsule wall, sporogenous tissue, columella. diagram	8 2
iii	With reference to <i>Funaria</i> explain: a) Antheridial head b) Antheridium	5 5
iv	External and internal structure of <i>Anthoceros</i> thallus.	5 5
<b>Q.3</b>	<b>Answer any two of the following.</b>	<b>20</b>
i	Give classification subfamily. Mimosae distinguishing characters floral formula	4 4 2
ii	<i>Pisum sativum</i> - family-Leguminosae sub family-Papilionaceae <i>Cocos nucifera</i> - Palmae, <i>Tridax procumbens</i> - Asteraceae	5 5
iii	Defination of Plant Nomenclature Rules of International Code of Botanical Nomenclature	3 7
iv	importance of Chemotaxonomy (Phytochemistry) in relation to Taxonomy. Proteins, alkaloids, tannins, polysaccharides.	10
<b>Q.4</b>	<b>Answer any two of the following.</b>	<b>20</b>
i	Principle working of Compound Microscope	3 7
ii	Process of Herbarium making - collection, processing, drying, mounting and stitching, labeling, storing.	10
iii	Def: Electrophoresis Principle and parts of electrophoresis apparatus	2 8
iv	TLC & its applications	5 5

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<b>Q.5</b>	<b>Write short notes on any four.</b>	<b>20</b>
i	Thallus structure in <i>Sargassum</i> .	5
ii	Vegetative reproduction in <i>Anthoceros</i> .	5
iii	Economic importance of family Amaranthaceae.	5
iv	Taxonomy in relation to ecology.	5
v	Disadvantages of electron microscopy.	5
vi	Wet preservation of plants.	5