HIGHER SECONDARY PRACTICAL EXAMINATION- FEB/MARCH- 2020

BOTANY

H	SE-II		Time: 1 ½ Hrs Total Scores: 20
1.	Prepare a T.S of the given specimen 'A Draw the ground plan and label the par Preparation	ons. 5 Scores or valuation.	
	Labelled diagram Identification	1%	
	Reasons	to the second se	
2.	Observe the given specimen 'B' a) Name the vegetative propagule		2 Scores
	b) Which plant part is modified c) Draw a neat labelled diagram	/2 1/2 1	
		• .	
3.	Identify the materials 'C' and 'D' or sign and	% x 2 =1	2 Scores
	Reasons	3 X 2 =1	
4	Identify the given stage 'E' of mitosis Identification	and give reason	1 Secre
	Reason	У <u>2</u>	
5.	Write the aim of the experiment 'F' D	avi and label the parts.	1 ½ Scores
	Labelled diagram	/2 1	
	Construct the floral formula of the given flower 'G'		1 ½Scores
•	Write down the ecological interaction of Identification of interaction	f the specimen ' H'	2 Scores
	Description	e e e e e e e e e e e e e e e e e e e	
	Prepare a C.S. of the given speciment. Draw diagram a Leave the preparation for valuation.		any two parts. 2 Scores
	Section Labelled diagram	. ½ . 1½ . ≥	m searcs
	Ascertaining the awareness of concepts related to the experiment.		1 Score
	Practical diary	•	
			2 Scores

SCHEME OF PRACTICAL EXAMINATION BOTANY-FEBRUARY 2020

- 1.A. Dicot stem, Monocot stem, Dicot root, Monocot root(any three materials should be provded)
 (Preparation-2 Diagram-1 Labelling-1/2(at least two main parts) Identification-1/2
 Reasons-1 (two features for stem/root and other two for dicot/monocot)
- **2.B.**Vegetative propagules Bulb,Offset,Rhizome,Runner,Sucker,Tuber(any five propagules should be provided) Name of propagule -1/2 which part modified-1/2 Diagram-1/2 Labelling-1/2 (at least two parts)
- **3.C.** Microscopic slides-(Oscillatoria,Rhizopus,Spirogyra,Moss-protonema,Fern-prothallus) Macroscopic specimens(Agaricus,Sargassum,Funaria-gametophyte with sporophyte, Nephrolepis-sporophyte,Pinus male cone&female cone)-Any three microscopic & macroscopic specimens should be provided) Name of specimen & its specified part-1/2 any one reason for its identification -1/2.
 - **D.**Photograph of Bioreactor, Bt. Cotton, Cloning vector(Identification-1/2, any one reason for its identification-1/2)
- **4.E.**Identification of any one stage of mitosis from the permanent slide mounting(use pointer eye piece)

 (Identification of given stage-1/2, any one reason for its identification-1/2)
- 5.F.Physiological experiments(as per the syllabus)(at least any five experiments should be
- provided)) Aim of the given experiment-1/2, diagram-1/2, labelling-1/2
- **6.G.** Single flower & L.S of flower(should be mounted on dissection microscope) belongs to Fabaceae, Solanaceae, &Liliaceae should be provided for each batch to construct the floral formula-1 ½
- 7.H. Lichen, Cuscuta/Loranthus, Epiphyte (Identification of interaction-1, description-1)
- **8.I.** Anther should be provided to take C.S. (Section-1/2, diagram-1, (diagrammatic sketch of four lobed anther c.s/cellular diagram of single lobe) Labelling-1/2(any two parts)
- 9. Ask simple questions informally related to the physiological experiments done-1
- 10. Practical diary -2
- *Issue individual materials for Q.no: 1A & 8 I.
- *Give separate additional sheet for answering spot at sight the materials C,D &collect the answer sheet immediately after answering.