

Shri. S.H. Kelkar College of Arts, Commerce and Science, Devgad Semester - II April 202**Q**

F.Y. B.SC Botany Paper – II USBO202			100 mark Duration – 3 hour
N.B.: (1) All questions are	compulsory.		
7 f - 7	abeled diagrams where		
Q. 1 A) Choose the corre (a) Water secreting glands	.7	W-020-1 0-0-125-1	
a) Hydathodes	b) Tyloses	c) Cork	d)Bulliform
(b) Cells surrounding the g	guard cells are called		
		c) Motor	d)Bulliform
(c) Pith is usually compose	ed of		
	b) Collenchyma		d) Sclerenchyma
(e) The dark reactions tak a)Grana b) s	troma c) C	ell wall d) l	umen of thylakoid
(f) are produ a) RUDP & RUM	cts of photosynthesis a P b) H2O & O2 c)		
(g) Conversion of pyruvat a) mesophyII cell's c) bundle sheath co	s cytoplasm	b) mesophyII cell'	s chloroplast
(h) is found in dr a) Zingiberene	ied rhizome of <i>Ginger</i> . b) Eugenol	c) Camphen	d) Vasicine
(i) is found in lea a) Zingiberene	ves of <i>Adulsa</i> . b) Eugenol	c) Camphen	d) Vasicine
(j) is found in lea		c) Aloin	d) Vasicine

B) Answer the following in one sentence. (a) What are complex tissues? (b) What is photophosphorylation? (c) What is plastidome? (d) Give the examples of plant pigments as a secondary metabolites. (e) Give the examples of drugs as a secondary metabolites Q. 2. Answer any two from the following. (a) Explain the primary structures observed in transverse section of Dicot stem. (b) Write a detailed note on epidermal tissue system. (c) Describe the non-vascular permanent tissue system in plants.

(20)

(20)

(20)

(d) Give a detailed account of trichomes as epidermal appendages.

(a) Describe the HSK pathway of carbon fixation in C4 plants.(b) Describe the process of cyclic photophosphorylation in detail.

(d) What is medicinal botany? Add a note on primary metabolites.

(c) Schematic representation of Non-cyclic photophosphorylation

(c) Describe the various pigments involved in the process of photosynthesis in green plants.(d) Differentiate between photosystem I and photosystem II and give the significance of

(a) Give an account on botanical name, family, active constituents and uses of Sandal wood

(c) What is Grandma's pouch? Give botanical name, family, active constituents and uses of

(b) What are Secondary metabolites? Add a note on different functions of secondary

Q. 3. Answer any two from the following.

Q. 4. Answer any two from the following.

Q. 5. Write short notes on any four.

(a) Sketch and label T.S. of Monocot leaf

photosynthesis.

and Haldi.

metabolites.

Aloe and ginger.

(b) Dicot Stomata.

(d) Role of Rubisco

(e) Medicinal uses of *Tulsi*.(f) Medicinal uses of *Adulsa*.