	VCD: 0104	23 Sem-IV Botan	y-II Date:	Ti	ime:	
	[Time: Three Ho					Marks:1001
	Please check whether you have got the right question paper. N.B: 1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Draw neat and labelled diagrams wherever necessary.					
2.1		orrect option from the				1
a.	Osteo sclereide are			cells.		Jan 198
	a. Bone	b. Stellate-	c	Rod	d	Stone
Ь.	Xylem and phloem located on the same radius such type of vascular bundle is known as Vascular bundles.					
	a. Conjoint	b. Radial	c.	Exarch	d.	Endarch
C.	Balloon like protrus	sion are present inside	the vessels	are known as		
	a. Tylosis	b. Lenticel	C.	Periderm	d.	Sclereid
d.	the daily light perio	are plants od exceeds a critical day	that flower	or in which flo	wering	is accelerated whe
	a. Day Neutral Plants (DNP)	b. Long Day Pla (LDP)		Short Day Plants (SDP)	d.	All of the above
e.	Aerobic Respiration	n is also known as	asiani	oxidation	1	
	a. Complete	b. Incomplete				
C				Neutral	d.	Essential
f.	i hytochrome F1 abs	forbs the visible radiation	on at	_ nm.		
	•a. 530	b. 625	c.	660	d.	730
g.	Cellular Respiration	is carried out by	a Clorent I	opieja ja jiotsi		
	a. Ribosome	b. Mitochondria	c.	Chloroplast	d	Nucleus
h.	The study of comp they live and strugg	lex interrelations better	ween orga	nism and their		
	a. Niche		c.		 d.	Habitat
i.	inclu	ides vegetation growi	ng on we	land.		
	a. Fellfield	b. Steppe		Savanna	d.	Swamp
j.	Soil is a superficial	layer of the earth's c	rust form	ed from the so	il parei	nt material called
	·					- Curred
	a. Calcification	b. Eluviations	C.	Regolith	d.	illuviation

B) Answer the following in one sentence: a) What are the Functions of phloem 10 Marks b) What is the parenchymatous tissue. c) Give the Number of ATP obtained from NADH2 and FADH2 d) Define Glycolysis. e) Define the Topographic factor Q. 2 Answer any two from the following: Explain Growth Rings with help of neat and labelled diagram 20 Marks b) Describe the different types of collenchyma and comment on its functions. c) Describe components Xylem and its function. d) Describe Shearing stress and Inextensibility with help of neat and labelled diagram. Answer any two from the following: Q. 3 a) Explain the mechanism of Anaerobic Respiration. Give its importance. 20 Marks b) Describe the Electron Transport System (ETS) with neat and labelled schematic diagram. c) What is Photoperiodism? Give difference between SDP and LDP. d) Define the Vernalisation process in detail. Give its application. Answer any two from the following: 0.4 Describe in detail carbon cycle. Add a note on its importance. 20 Marks b) Explain the concept of Environmental factors. c) Discuss the process of soil formation with respect to chemical weathering. d) Enlist and explain quantitative characteristics of community. Answer any four from the following: 0.5 a) Periderm 20 Marks b) Heart and wood and Spring wood c) * Importance of Respiration in plants. d) Describe the Reaction of interconversion of Phytochromes e) Pedogenesis f) Stratification