2024

(b) Write notes on the following in 5 12 19 (FYUGP)

(5th Semester) vi (ii)

BOTANY following:

2. (a) Explain (inomin) flerent blotte interactions-symbiosis,

for Write short

COMMITTENE

-mammon_

Paper Code: BCC-M-5 (T) plants. Shims ny language in 19

(Plant Ecology and Phytogeography)

Full Marks: 75 Pass Marks: 40%

Time: 3 hours

(PART : B—DESCRIPTIVE)

Isoimplose vd (Marks: 50), ob tadw

The figures in the margin indicate full marks for the questions

Answer one question from each Unit

(b) Write short natering the following:

1. (a) Define homeostasis. Discuss briefly the origin, formation and composition of soil. 2+8=10

L25/210a

5x2=10

(Turn Over)

Or

(b) Write notes on the following:

5×2=10

- (i) Atmospheric moisture
- (ii) Hydrological cycle

UNIT-II

2. (a) Explain the different biotic interactions—symbiosis, commensalism, parasitism with respect to plants.

10

Or.

(b) Write on the following:

5×2=10

- (i) Temperature and light
- (ii) Wind and fire

UNIT-III

3. (a) What do you understand by ecological speciation? Discuss the characteristics and dynamics of population ecology.

3+7=10

Or

(b) Write short notes on the following:

5×2=10

- (i) Ecotone and edge effect
 - (ii) Succession

(Continued)

Unit—IV

Define biogeochemical cycle. Discuss 4. (a) the cycling of nitrogen in the ecosystem.

2+8=10

To be fille

BA / MSc / BC

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Examination, 2

Or

(b) Write short notes on the following:

 $5 \times 2 = 10$

- (i) Food chains and food webs
- (ii) Ecological pyramids the west to the attention wereful meaning the

UNIT—V

5. (a) What is phytogeography? Give brief description of major terrestrial biomes covering tropical and temperate region.

2+4+4=10

S. We the armometric the gries Or in a state ϕ

- (b) Discuss on the following:
- (i) Local vegetation
- (ii) Endemism graph in santy postton chould be

followed for antere ing that question

 $5 \times 2 = 10$

DESCRIPTIVE TY

ELITICAL

Booklet No. B

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艺术中的1303年147年。

and the followith 2.012 own as a topographic	idWheS:
(FYUGP)	
(5th Semester) drug a little 3	(a)
BOTANY) haiW	(d)
Tomperature (roniM)	(0)
Paper Code: BCC-M-5 (T) pidimuH (Plant Ecology and Phytogeography) Stotical attitude as a griwollol and to ano do	OS 213
(PART : A—OBJECTIVE)	(a)
(Marks : 25)	
The figures in the margin indicate full marks for the	questions
Fungus (I—Nortae	(5)
(Marks: 15) at is the interaction between species in which the Put a Tick!(*/) mark against the correct answer ir brackets provided: : Marks: 15)	the
1. Which of the following is known as an edaphic at factor?	piotic
(a) Light () () maileutuM	(d)
(b) Soil () () () () () () () () () ((0)
(d) Water () mailmanning	(b)
as the state of th	A. P. C. P. P. C. P. C. P. P. P. C. P. P. P. C. P.

as a topographic
2. Which of the following is known as a topographic abiotic factor?
(a) Earth's surface (2 n) 2)
(b) Wind () WATO 3
(c) Temperature
(d) Humidity 3-M (OOS): shoot require
3. Which one of the following is an abiotic factor?
(a) Animal (SVITOSI) (SPAT)
(b) Plant ()
The figures in the margin indic(test) it morbiblished (3) times
(d) Fungus (i—i)orroaz
4. What is the interaction between species in which the
fitness of one overpowers the presence and fitness of another called?
(a) Competition as award is aniwollow of to doinw .1
(b) Mutualism () digid (b)
(c) Parasitism () (d)
(d) Commensalism () retail (b)
Bs/BCC-M-5 (T)/210

5.	of	differ	the b ent sp known	ecies	cal i	inte whi	raci	ion b each i	etwe ndivi	en organ dual rec	isms eives	1.6
	(a)) Par	asitisr	n	1	1		cies	oqe :	ceystone	(a)	
	(b)	Cor	npetit	ion	,	()	di	namno	(a)	
	(c)	Cor	nmens	 salism	1		()	blips	(0)	
	(d)) Mu	tualisı	n	(0))	no	populati	(63)	
6.		to be to me to be be	relatio	G 1 1 1 4 2	d Mari	1-2	2 2 2-1 1	orchi	d gr	owing a	mald s an	.01
	(a)	Con	nmens	alism	ľ	-	,)			Demogra		
Ų,	(b)	Mu	tualisr	n .		1-15				Populati		,
	(c)	Para	asitisn	n 🚶)	1	chait		Populati		
	(d)	Ame	ensalis	sm		(:)		Y	Mortalia	(b)	
7.	Th	e nat	ural p	lt asc lace	illot of a	n _{il} o in _{il} o	orga	nahw nism	or c	eds to de ommuni Selaubh	tylis	AL.
	(a)	nich	ıe	()					Dispers		
	(b)	bion	ne	()		*delana			Mortalit		
	(c)	habi	itat	()		None	and the second		Natality		
\$25.a	(d)	habi	t to	r(cos)	or u	les	rėtjai		The predate		
3. ·	Wh	ich is	not	the cl	hara	acte	rist	ic of	a po	pulation	12; A	.DI
	(a)	Nata	lity	1.) (1	nr.)	291	oogi	n _i a s	i ala.	ubivibni	(α)	
	(b)	Mort	ality	-)		hii	ILIM	com	a ni	species	11.1	
Ì	(c)	Strat	tificati	on	yste	100	bya	e'ni i	apillie	mannes	(0)	
- ((d)	Sex	ratio	The Addition	ţ.) fet	imi	EG	i aigi	individu	(d)	

9.	The	collection of individuals which belong to the energies when live together in a region is known
	as	benefit known?
	(a)	keystone species () mattiagrag (b)
	(b)	community () noising and (d)
	(c)	(c) Commensalism () bliug
	(d)	(d) Mutualism () noilaufum (b)
10.	Nar	ne the term which defines the study of the racteristics and parameters of the population.
47	(a)	Demography () mislissismmo (b)
	(b)	Population ecology () medautum (d)
	(c)	Population density () maintains (c)
	(d)	
11.	ind	ich of the following terms defines the ability of the ividual in the population to produce new ividuals?
		- lol giologia (gl.
20	(b)	Mortality () () () emore (d)
	(c)	Natality () () and notes of the latest (c)
	A 10 (1)	Population dispersal () tidad (b)
12.	Αŗ	8. Which is not the characlorquorgsassingoitaluqoo
	(a)	individuals in a species () () ydilate ()
	(b)	species in a community (-) tile not (d)
	- Indian	communities in an ecosystem noise (1110) (2)
		individuals in a family ()

13. What can be visualized as a function nature?	onal unit of
(Marks 10)	
(a) Humans ()	Write on the follow
(b) Ecosystem ()	1. Sell prefile
(c) Vehicles ()	
(d) Plants ()	· ·
14. Pyramid of energy is always	
(a) upright ()	
(b) inverted ()	
(c) Both (a) and (b) ()	
(d) down ()	
15. What is the primary focus of phytogeog	graphy?
(a) Plant anatomy ()	
(b) Plant distribution ()	
(c) Plant taxonomy ()	
(d) Plant physiology ()	

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la time Ismonant SECTION—II salv serios the W.E.
                                     seem ladathing
                     ( Marks: 10 )
                                      enemne (a)
Write on the following in few sentences:
                                               2 \times 5 = 10
                                    m) Ecosystem
 1. Soil profile
    Topic length
                          Vehicles ( )
10. Names the term office offices the study of the
    14. Pyramid of energy is always good name and
11. While to the following terms the below the Religible 11.
    went pout out of and (b) and (b)
    15. What is the primary focus of phytogeography?
(a) Plant anatomy to odorg a si natisfican A .ST
    . (b) Plant distribution en and a managed (c)
    (c) Plant taxonomy, and of me paint content of
    (d) Plant physiology ( t) statement (
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2. Commensalism

3. Population ecology

3. Population ecology

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L. Commensailsn.

HE/12/0-M-2-17/210

4. Trophic organization

5. Theory of tolorance

(10)

5. Theory of tolerance

4. Trophic organization

 $\star\star\star$