

(4)

Code No. : S-362

Roll No.....

Total No. of Sections : 03

Total No. of Printed Pages : 04

OR

fgeky; in'sk dh ouLifr dk o.ku dhft; A

Explain vegetation types of Himalayan region.

ç'u 4- eDdk dh Ql y dk o.ku dhft; A

Describe Maize Crop.

OR

diki dh [krh rFkk bl ds vkfFkZd egYo dk o.ku dhft; A

Describe cultivation and economic importance of cotton.

ç'u 5- fuEufyf[kr i kSka ds vks/kh; egYo dks crkb; s%

vkpyk] uhe] rylh] vQhe] gYnh

Give the medicinal significance of following plants :

Amla, Neem, Tulsi, Opium, Turmeric

OR

fdlgha i kp el kyk mRi kn d i kSka dk o.ku dhft; A

Describe any five spices providing plants.

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Annual Examination - 2018

B.Sc. Part - III

BOTANY

Paper - II

ECOLOGY AND UTILIZATION OF PLANTS

Max.Marks : 50

Min.Marks : 17

Time : 3 Hrs.

Vhi % [k.M ^\* eanl vfry?kjkjh iz'u g\$ ftlgagy djuk vfuok; Zg\$ [k.M ^\* eay?kjkjh ç'u ,oa [k.M ^\* eanl?k mYkjh ç'u g\$ [k.M ^\* dks l cl sigysgy dja

Note : Section 'A', containing 10 very short-answer-type questions, is compulsory. Section 'B' consists of short-answer-type questions and Section 'C' consists of long-answer-type questions. Section 'A' has to be solved first.

Section - 'A'

fuEufyf[kr vfry?kjkjh ç'ula ds mYkj ,d ;k nls okD; ka ea na Answer the following very short-answer-type questions in one or two sentences. (1x10=10)

ç'u 1- tyknfkn D; k g\$

What are hydrophytes?

ç'u 2- cl Urhdj.k dks i fjHkkf'kr dhft, A

Define Vernalization.

ç'u 3- i kfjLFkd fij kfeM D; k g\$

What is Ecological Pyramid?

ç'u 4- tSoD o.kZe l sD; k rkr; Zg\$

What is meant by biological spectrum?

ç'u 5- l e"V i kfjLFkfrdh ds dkbZ nks y{k.k fyf[k, A

Write any two characteristics of population ecology.

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ç'u 6- Hkkjr ds nks tã&HkkSksfyd {ks=k ds uke fyf[k, A  
Write names of two biogeographical regions of India.

ç'u 7- xgju vkj xlu ds okuLi frd uke fyf[k, A  
Write the botanical name of wheat and sugarcane.

ç'u 8- j\$ks D; k g\$ j\$ks ds nks mnkj .k nhft; A  
What are fibres? Give two examples of fibres.

ç'u 9- nkyphuh , oayk ds okuLi frd uke fyf[k, A  
Give the botanical names of Cinnamon and Clove.

ç'u 10- v'oxakk rFkk i izakk ds nks&nks vkSk/kh; mi ; kx dks crkb; A  
Give two medicinal uses each of Ashwagandha and Sarpagandha.

### Section - 'B'

**fuEukdr y?k mYkj; ç'u uk ds mYkj 150&200 'kn I hek ea na**  
**Answer the following short-answer-type questions with word**  
**limit 150-200 (3x5=15)**

ç'u 1- enk ifjPNfndk ds fofHku Lrjka dh fopuk dhft; A  
Discuss the different horizons of soil profile.

**OR**

e: nfhkn ea ik; s tkus okyh vkdkfj dh vuphyrkvka dh 0; k[; k dhft; A  
Explain the morphological adaptations found in xerophytes.

ç'u 2- ?kkl ds ehku dk ikjfLFkfrd ra dh fo'kskrk; i fyf[k, A  
Write the characteristics of grassland ecosystem.

**OR**

ikni I epk; ds fofHku : i ij fVli .kh fyf[k, A  
Write note on life forms of plant communities.

ç'u 3- 'khrk\$ .k dfVcakh; ou vfHkyk{kf.kd fo'kskrkvka dks crkb, A  
Give the characteristic features of temperate zone forest.

**OR**

I ef"V ikjfLFkfrdh ds I nhkZ ea of) oØ dks I e>kb; A  
Explain growth curve in context to population ecology.

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ç'u 4- I j l ka ij fVli .kh fyf[k, A  
Write note on mustard.

**OR**

tykÅ ydMh ds L=kr ij I f(klr vky[k nhft; A  
Give a brief account on fire yielding wood.

ç'u 5- pk; dh [krh ds egRo dks I e>kb; A  
Explain the significance of tea cultivation.

**OR**

jcj ds jki .k df"k ij fVli .kh fyf[k, A  
Write note on Rubber plantation agriculture.

### Section - 'C'

**fuEukdr nhkZ mYkj; ç'u uk ds mYkj 300&350 'kn I hek ea na**  
**Answer the following long-answer-type questions with word**  
**limit 300-350 (5x5=25)**

ç'u 1- \_\_.kkRed vfHkØ; kvka dks foLrkj I s I e>kb; A  
Explain negative interaction in detail.

**OR**

nhkZ hdkfyrk D; k g\$ ikni ij izk'k dh fofHkÉ izkj dh ifrfØ; kvka dks I e>kb; A

What is photoperiodism? Explain the various types of responses of light on plants.

ç'u 2- ikni I epk; ds y{k.kk dks o.ku dhft; A  
Describe the characteristics of plant community.

**OR**

tã&Hkj I k; u pØ dks I fp= I e>kb; A  
Explain bio-geochemical cycle with diagram.

ç'u 3- I nckgj ou dh I foLrkj 0; k[; k dhft; A  
Explain Evergreen forest in detail.

P.T.O.