

SET-I
MODEL PAPER
class XII
Science (Agriculture)

Time : 3 Hrs. + 15 Minute (Extra)

Total Marks : 70

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[Total Marks : 70]

General Instructions :

- All Questions are compulsory
- There is *No negative marking* for any wrong answers
- Questions are in two sections

[k.M&I (Section-I)

Objective)

Total Marks)	-	35
Total No. of Questions)	-	35

[k.M&II (Section-II)

Non-Objective)

Short Answer Type)	-	20
Long Answer Type)	-	15

4- In some of the long answer type questions, there are internal options. In such questions you have to answer any one of the alternative.)

5- Answer should be in your own language as far as practicable)

6- No electronic gadgets like calculator, cell phone, pager are allowed during exam.)

7- The answer of objective question is to be given on supplied OMR sheet by completely darkening the appropriate answer option. For example if answer is (c) the you should darken it as shown by blue/ black pen.)

(a) (b) (c) (d)

[k.M&I %Lr(u"B i zu½
Section-I (Objective Type)

I e; %1 ?k/s 10 feuV
[Time : 1 Hour 10 Minutes]

i wkkl : 35
[Total Marks : 35]

[k.M&I ea l Hkh 35 oLr(u"B i zu½ dsmùkj vkE, eEvkjE l HV ij nA i zu l ã; k 1 l s 35 rd
ds i R; d i zu 1 vrd dk gA 35×1 = 35

In section I, there are 35 objective type questions, to be answered on OMR sheet.
Question Nos. 1 to 35 carry 1 mark each.

1. pØ ds vk/kkj ij Ql yka dk oxhñj.k gS:

- (a) [kjhQ] jch] xjek (b) , do"kh] f}o"kh] cgp"kh]
(c) /kkU; Ql yñ nyguh Ql yñ rygu Ql ya
(d) udnh Ql yñ vllroñh] Ql yñ vkoj.k Ql ya

Classification of crops on the basis of life cycle :

- (a) Kharif, Rabi, Summer (b) Annual, Biennials, Perennials
(c) Cereal crops, Pulses crops, Oilseed crops (d) Cash crops, Catch crops, Trap crops

2. ckjks /kku ds i ñkn gS:

- (a) xks-e] fjNkfj; k (b) rgUr] l ckj nhi
(c) l hrk] dud (d) l qakk] drjuh

Varities of Boro rice :

- (a) Gautam, Rechharia (b) Tturanta, Sabour deep
(c) Sita, Kanak (d) Sugandha, Katarni

3. l ksykus h i fjokj ds Ql y ugha gS%

- (a) vkYw (b) puk
(c) VekVj (d) rEckdw

The crop is not under the solanaceae family :

- (a) Potato (b) Gram
(c) Tomato (d) Tobacco

4. l g{kk Ql y ds mnkgj .k gS:

- (a) dq e (b) vkYw
(c) puk (d) VekVj

Example of Guard crop is :

- (a) Safflower (b) Potato
(c) Gram (d) Tomato

5. चक्रवर्तुषु कृषि के लिए, यद्यपि [kji rokj mnkgj.k] गैस:

- (a) [kjhQ ekS e ds [kji rokj (b) xh"edky ds [kji rokj
(c) jch ekS e ds [kji rokj (d) buea l s l Hkh

Bathua (*Chenopodium album*) weed is example of :

- (a) Kharif weed (b) Summer weed
(c) Rabi weed (d) All of these

6. तदोद [krh ds eq; f}rh; d l kr] गैस:

- (a) i s keM , oaMkbt t VM Lyt (b) [kfYy; k;
(c) dpq; dh [lkn (d) dEi k V

Main secondary resource of organic cultivation :

- (a) Pressmud and digested slug (b) Cakes
(c) Wormi compost (d) Compost

7. चक्रवर्तुषु कृषि के लिए:

- (a) ekQyh (b) ek
(c) jkbz (d) l w z [kh

Baruna is variety of :

- (a) Ground nut (b) Moong
(c) Brown Mustard (d) Sunflower

8. i h l h 6 v k f j ; k s i h k n g S :

- (a) Tokj (b) c j l h e
(c) t b z (d) u f i ; j ? k k l

P.C. 6 and Rio are varieties of :

- (a) Jwar (b) Barseem
(c) Oat (d) Napier grass

9. चक्रवर्तुषु कृषि के लिए, यद्यपि [kji rokj mnkgj.k] गैस के लिए:

- (a) vYl h dk mdBk jks (b) xLus dk yky l Me jks
(c) l j l ka dk l Qn gjnk jks (d) tW rus dk l Me jks

Macrophomina phaseoli is causes of disease :

- (a) Wilt of Linseed (b) Red rot of Sugercane
(c) White rust of Mustard (d) Stem rot of Jute

10. $\frac{1}{2} \frac{1}{2}$, D; $\frac{1}{2} \frac{1}{2}$ [kj&irokj dk ifjokj gS:

- (a) $\frac{1}{2} \frac{1}{2}$ (b) fyfy, I h
(c) fvfy, I h (d) xehuh

Corchorus acutangulus weed belong to family :

- (a) Solanaceae (b) Liliaceae
(c) Tiliaceae (d) Gramineae

11. 'khrk'.k dVcl/kh; tyok; qds Qy gS:

- (a) yhph (b) I D
(c) dVgy (d) vxij

Temperate fruit is :

- (a) Litchi (b) Apple
(c) Jackfruit (d) Grape

12. tk; n dh I fct ; k; gS:

- (a) cXu (b) vkyw
(c) VelVj (d) I; kt

Jaid season vegetable is :

- (a) Brinjal (b) Potato
(c) Tomato (d) Onion

13. ogr rRo dsmnkj .k gS:

- (a) ckj kwh (b) dkWj
(c) vk; ju (d) dSY'k; e

Example of Macro nutrient :

- (a) Boran (b) Copper
(c) Iron (d) Calcium

14. i qi foKku $\frac{1}{2}$ $\frac{1}{2}$ Hkk"kk ds nks 'kcn ; kfu Flowis , oa Culturea I s cuk gS %

- (a) ySVu (b) Yp
(c) vxst h (d) I LÑr

Floriculture is derived from two word flowis and cultorea by language of :

- (a) Latin (b) French
(c) English (d) Sanskrit

15. वखि गसृगि अककडि धि फोफ/क गः

- (a) VsyhQksu fof/k (b) dkMZU fof/k
(c) Li sy; j fof/k (d) fi jkfeM fof/k

Training system of Grapes :

- (a) Telephone system (b) Cardon system
(c) Spaliar system (d) Pyramid system

16. न्जि सिदुसोयक वके दि कन १/४xLr वसृगि फि रैजि एग १/२ फोले गः

- (a) xgk [kk (b) ekyng ; k yaxMk
(c) pk k (d) n'kgjh

Late ripe (August and September) variety of mango is :

- (a) Gulabkhas (b) Maldah or langra
(c) Chousa (d) Dashari

17. वपयक दि ओकफुद ; क ओकुलि फुद उके गः

- (a) Yxfj ; k vukul k (b) vEcfydk vksQfl ufyl
(c) dkdI ufj Qjk (d) vkVdki I gsjkQkbyl

Scientific or Botanical name of Awala is :

- (a) *Fragaria ananassa* (b) *Embilica officianalis*
(c) *Cocos nucifera* (d) *Artocarpus heterophylles*

18. गYnh ds iBkn गः

- (a) jktBnz I ksu; k (b) ufn; k
(c) I qBkk (d) ojn k

Variety of Turmeric :

- (a) Rajendra Sonia (b) Nadia
(c) Suprabha (d) Varda

19. वkywea gjki u fdl ds dkj .k gkrk गः

- (a) QQm I s (b) t' hok. kq I s
(c) rRoka dh deh I s (d) I w Z ds i zdk'k I s

Causes of greenness in potato :

- (a) due to fungus (b) due to bacteria
(c) due to loss of nutrient (d) due to sun rays

20. fuEufyf[kr ea l s , d pk; dk i Hkn ugha gS:

- (a) t ; jke (b) l nje
(c) cdyM (d) fi z dk

One of the followings is not the variety of tea :

- (a) Jairam (b) Sundaram
(c) Bukland (d) Prianka

21. cj dk vxrh fdLea gS:

- (a) mejku (b) xkyk
(c) dfkyh (d) ejgjk

Early varieties of plum :

- (a) Umran (b) Gola
(c) Kathali (d) Murhara

22. dpe l Vkol okuLifrd uke gS:

- (a) ykh (b) dfnek
(c) [khjk (d) djyk

Cucumis sativus is the Botanical name of :

- (a) Bottle gourd (b) Pumpkin
(c) Cucumber (d) Bitter gourd

23. [khjk] f>xyh] usupk , oa i joj dk mnHko LFky gS:

- (a) Hkkjr (b) vYhdk
(c) nf{k.kh vesj dk (d) mUkjh vesj dk

Origin of cucumber, Ridge gourd, sponge gourd and pointed gourd is :

- (a) India (b) Africa
(c) South America (d) North America

24. Mgyf; k ds i qi .k dsfy, mi ; Dr rki eku gS:

- (a) 5 fMxb l fYl ; l (b) 15 fMxb l fYl ; l
(c) 25 fMxb l fYl ; l (d) 45 fMxb l fYl ; l

Optimum temperature for Dahlia flowering is :

- (a) 5°C
- (b) 15°C
- (c) 25°C
- (d) 45°C

25. ਪ੍ਰਸ਼ੰਸਕ ਏਕ ਿਜ਼ ਠਕਠਿਰਦ ਿਠਕਕੋ ਦਸ਼ਦਕਿ.ਕ :

- (a) ਏਕ ਿਠ, ਪ- ਏਓਫ)
- (b) ਦਕਠਿਠੁਦ ਿਨਕਠਿਠ ਦਿ ਰਹੋਠ ਓਪਨਿਠੁ
- (c) ਠਹੋਕ.ਕਠਿ ਦਸ਼ ਿਠਠ; ਰਕ ਏਓਫ)
- (d) ਵਠਿਠਿਠੁ ਿਠੁ ਓ ਵਠਿਠਿਠੁ=ਓਜ.ਕ ਏਓਫ)

Due to physical effect of lime on soil :

- (a) Increase in soil pH
- (b) High decomposition of carbonic matter
- (c) Increase of Bacterial activity
- (d) Increase in Infiltration or Percolation

26. ਖਗਿਠਿਠਿਠ ਿਠ ਠਿਠ ਠਿਠਿਠ ਵਕੋ'; ਦਰਕ ਗਕਠਿ ਗਸ਼:

- (a) 28-0 ਿ ਸੇਠ
- (b) 50-0 ਿ ਸੇਠ
- (c) 62.5 ਿ ਸੇਠ
- (d) 200-0 ਿ ਸੇਠ

Total requirement of water for wheat crop :

- (a) 28.0 c.m.
- (b) 50.0 c.m.
- (c) 62.5 c.m.
- (d) 200.0 c.m.

27. ਿਠਿਠਰਕ ਦਕ ਮਠਿਕ; ਠਿਠਠ ਿਠਕਨ ਗਸ਼:

- (a) ਿਠਿਠ ਕ ਠਿਠਠਿਠਿਠ ; ਿ
- (b) ਿਠਿਠ ਕ ਮੋਕਠਿਠ
- (c) ਿਠਿਠ-ਵਕਸ਼ 2
- (d) ਠਿਠਿਠ ਠਿਠਿਠਕ ਲੋਠਿਠ

Gynodioecious variety of papaya :

- (a) Pusa delicious
- (b) Pusa dwarf
- (c) C.O. 2
- (d) Pink flash sweet

28. ਖਗਿਠਿਠ ਦਕ ਿਠਨ ਠਿਠਲੇ ਗਸ਼:

- (a) ਿਠਿਠ ਕਠਿਠ; ਕ
- (b) , ਓਠ
- (c) ਠਿਠਿਠ ਕਠਿਠ
- (d) ਮਪ ਠਿਠਿਠ

White variety of rose :

- (a) Sonia
- (b) Avon
- (c) June bride
- (d) Dutch gold

29. ਏਠਿਠ ਦਕ ਿਠਿਠ ਕ ਠਿਠਕਠਿਠ ਠਿਠਲੇ ਦਸ਼ਕਠਿਠਕਠਿਠ ਦਕ ਿਠੇ; ਗਸ਼:

- (a) vi&y&vxlR (b) vxLr&vDVtj
 (c) fl rEcj&uoEcj (d) vDVtj&fni Ecj

Sowing time of Pusa himani variety of Radish :

- (a) April - August (b) August - October
 (c) September - November (d) October - December

30. fuEufyf[kr ea l s , d c&u dk y&k fdLe ugh&gS:

- (a) i k gkbfcM&6 (b) jktlnz c&u&2
 (c) i k gkbfcM&5 (d) vdkzf'kjh'k

One of the followings is not the variety of long brinjal :

- (a) Pusa Hybrid-6 (b) Rajendra Bangan-2
 (c) Pusa Hybrid-5 (d) Arca sherish

31. 'kgjh dEi k&V ea i k&k'k (K) dk i fr'kr gkr&k gS:

- (a) 0.12&0.15% (b) 1.0%
 (c) 3.0&3.75% (d) 4.0%

The percentage of Potash (K) in urban compost :

- (a) 0.12 – 0.15% (b) 1.0%
 (c) 3.0 – 3.75% (d) 4.0%

32. Mgyf; k dk I Qn fdLe gS:

- (a) oYMZU; wt (b) YUV jks
 (c) ekbØks (d) est j xum

White variety of Dahlia :

- (a) World news (b) Frunt Ro
 (c) Micro (d) Majer grenaw

33. ifjj{k.k i fØ; k ea Qyka dks vkn&rk rd I q&kk; k tkr&k gS%

- (a) 10&12% (b) 18&20%
 (c) 24&26% (d) 28&30%

In the process of preservation fruits drying upto moisture content :

- (a) 10-12% (b) 18-20%
 (c) 24-26% (d) 28-30%

34. fuEufyf[kr ea l s , d tu&I Ei dZ dk fof/k ugh&gS:

(a) Vfyfotu

(b) jfM; ks

(c) I ekpkj&i =

(d) ifj.kke i R; {k.k

One of the followings is not method of mass contact :

(a) Television

(b) Radio

(c) Newspaper

(d) Result demonstration

35. J0; mi dj.k ds mnkgj.k gS:

(a) jfM; ks

(b) i k&Vj

(c) Vfyfotu

(d) dEl; Wj

Example of Audio aid is :

(a) Radio

(b) Poster

(c) Television

(d) Computer

Section I & II
Non-objective

Time : 2 Hrs. + 05 Minutes

Total Marks : 35

Short Answer Type Questions

[Total Marks : 35]

Questions (Short Answer Type Questions)

1. Write two examples of medicinal crops. 2 × 10 = 20

2. Write two names of cover crops. 2 × 10 = 20

3. Write two composite varieties of maize crop.

4. What is suitable temperature for vegetative growth and reproduction of pea crop.

5. What is seed rate for composite and hybrid varieties of Sunflower.

6. Define parallel cropping.

7. Write about physical effects of lime on soil.

8. How will you do Biological control of opuntia?

9. Define co-operative farming.

10. Write two examples of each early and late varieties of plum.

11. What are four varieties of lemon grass are?

12. Describe the importance of protected cultivation for vegetables.

13. Write two examples of medicinal crops.

Write name the four varieties of mango developed by Bihar Agriculture College, Sabour, Bhagalpur

14- i ksk.k okfVdk l sD; k ykHk gS

What are the benefits of kitchen garden.

15- i l kj f'k{kk dks i fjHkkf"kr djA

Define Extension Education.

nh?kz mUkj; ç'u (Long Answer Type Questions)

i l u l q; k 16 l s 18 nh?kz mUkj; i d kj ds gA i R; d ds fy, 5 v d fu/kkZjr gA $3 \times 5 = 15$

Question Nos. 16 to 18 are of long answer type. Each question carries 5 marks. $3 \times 5 = 15$

16- eDdk vFkok el j dh [ksh dk fuEufyf[kr 'kh"kdka ea o.kZu djA

Describe cultivation of maize or lentil under following heads.

- (a) okuLifrd uke (Botanical name)
- (b) mi ; Ør feVh (Suitable soil)
- (c) cht nj (Seed rate)
- (d) mUur i Hkn (Improved variety)
- (e) jks , oaml dk fu; æ.k (Disease and their control)

17- vkym vFkok /kfu; k dh [ksh dk fuEufyf[kr 'kh"kdka ea o.kZu djA

Describe cultivation of potato or coriander under following heads.

- (a) okuLifrd uke (Botanical name)
- (b) ifjokj (Family)
- (c) cht nj (Seed rate)
- (d) mUur i Hkn (Improved variety)
- (e) jks , oaml dk fu; æ.k (Disease and their control)

18- Nf"k foi .ku ea 'kkfey gksus okys dk; DUKZ/ka ds ckjs ea o.kZu dhft , A

Describe about the workers involve in Agricultural marketing.

vFkok@Or

Nf"k fodkl ea i l kj f'k{kk dk D; k mnas; gS

What are the aims of extension education for the development of Agriculture?

[k.M&I (Section-I)
oLru"B ç'u dsmùkj
(Answer of objective type questions)

Answer

- | | | | |
|---------|---------|---------|---------|
| 1. (b) | 2. (a) | 3. (b) | 4. (a) |
| 5. (c) | 6. (a) | 7. (c) | 8. (a) |
| 9. (d) | 10. (c) | 11. (b) | 12. (a) |
| 13. (d) | 14. (c) | 15. (a) | 16. (c) |
| 17. (b) | 18. (a) | 19. (d) | 20. (d) |
| 21. (b) | 22. (c) | 23. (a) | 24. (c) |
| 25. (d) | 26. (a) | 27. (a) | 28. (c) |
| 29. (a) | 30. (a) | 31. (b) | 32. (a) |
| 33. (b) | 34. (d) | 35. (a) | |

Section ¼k.M½ & II

Non-objective ½ç&oLru"B½

y?qmùkj; ç'u dsmùkj (Answer of short answer type questions)

- 1- vkSk/kh; QI yka ds nks mnkgj.k gA
 (i) ?krdekjh (ii) I iZakk
- 2- nks vkoj.k QI yka ds uke gA
 (i) epk (ii) I kš kchu
- 3- eDdk ds nks l ady i Hkn gA
 (i) I ōku (ii) nōdh
- 4- eVj ds vPNs okuLi frd fodkl , oa iztuu ds fy, mi ; Ør rki Øe Øe'k%21° l sxs , oa 16° l sxs gsrk gA
 fnu vj jkr dk rkieku Øe'k%16° l sxs , oa 10° l sxs gsrk pfg, A
- 5- l w ð[kh ds l ady , oa l adj i Hknka dk chnj Øe'k% 08 fdykskte@gDVj , oa 05 fdykskte@gDVj gsrk gA
- 6- l ekukUrj [krh (Parallel cropping) : fdl h , d gh [kr ea , d l kfk nks , d h QI yka dks yxkuk ftuea c<ko dh i Ñfr fhkuu gks rFkk , d nu js l s yxHkx 'kù; ifr}fU}rk djrs gq viuh iwZ {kerk ds vuq i mit inku dj} ml s l ekukUrj [krh (Parallel cropping) dgrs gA
 tš &eDdk dh QI y e&ek] mMn] 'kjn-dkyhu xluuk e&vky] mMn 'kjn-dkyhu xluuk e&vky] ygl u] ewh] /kfu; k; bR; kfnA
- 7- pws dk enk ij Hkkrd i Hkko (physical effects of lime on soil)

- (i) enk l jipuk ea l dkkj
(ii) enk ds LFkny ?kuRo ea deh
(iii) vlr% iUnu (Infiltration) o vlr%=o.k (Percolation) ea of)
(iv) enk vijnu (soil erosion) dsfuel=.k ea viR; {k ; kxA
- 8- ukxQuh (opuntia) dk tfod fu; æ.k (Biological control) %& dhVka }kjk dbZ nska ea fd; k tkrk gA nf{k.k Hkkjr ea bl dk fu; æ.k MDVkyks i l VkeUVkd l (Dactyloopsis tomentosus) }kjk fd; k tkrk gA
- 9- l gdkjh Ñf"k (co-operative farming) %& MKE vks/ks f'kyj ds vuq kj Bl gdkjh Ñf"k Ñf"k 0; oLFk dk og : i gsftl ds vlrXr Hkne dk l a p r iz kx fd; k tkrk gA
bl idkj dh Ñf"k 0; oLFk ea Ñf"kd viuh Hkne ds Lokeh cus jgrs gA i jUrq [krh l EcfU/kr dk; Z nh js yskka ds l kfk feydj djrs gA vks l Ei wkZ 0; ; , d dksk ds }kjk gkrk gA bl ea dty mRiknu dks cpdj tks vk; i kr gkrh gS ml ea l s dty 0; ; ?kVkdj tks #i ; k cprk gS ml s l Hkh l k>nkj vki l eafeydj ckV yrs gA
- 10- cj (plum) dk vxrh , oa i Nsrh i Hkn&vxrh i Hkn (Early varieties) %&
(i) xkyk (Gola) (ii) l c (seb)
i Nsrh i Hkn (late varieties) %&
(i) mejku (Umran) (ii) vtejh (Ajmeri)
- 11- yeu xtl dspkj i Hkn %&
(i) ixfr (Pragati) (ii) i ek.k (Praman)
(iii) dkojh (Kaveri) (iv) Ñf".kk (Krishna)
- 12- l fct; ka dh l jf{kr [krh ds mi ; kfxrk %&
(i) l fct; ka dh mRi kn drk , oa xqkoUkk c<+ tkrh gA
(ii) fd l h Hkh LFkku ij o"lz Hkj l Cth mRiknu l Hko gA
(iii) cgr de {k= ea mRiknu djds i ; kr thfodksi ktZ l Hko gA
(iv) l fct; ka ea 'kd l adj chtka (pure hybrid seeds) ds mRiknu ds fy, l jf{kr [krh vko' ; d gA
- 13- fcgkj Ñf"k egkfo | ky; l ckj Hkkxyij }kjk fodfl r vke dh pkj i Hkn gA %&
(i) egemcgkj (ii) i Hkk'kdj
(iii) esdk (iv) vyQtyh
- 14- i ksk.k okfVdk ds ykHk (benefits of kitchen garden) %&
(i) ifjokj ds fy, rkth i kskd rRo l s Hkjiij rFkk gkfudkj d j l k; u l s jfgr Qy , oafujrj feyrsjgukA

- (ii) xg okfVdk yxkdj efgyk, a viuh o vius ifjokj dh vkfFkZ fLFkfr dks etcr cukukA
- (iii) iklr ek\$ eh Qy , oa l fct; ka dks ifjff{kr (Reserved) djds l ky Hkj blræky djukA
- (iv) eukjat u vks 0; k; ke dk , d vPNk l k/kuA

15- i d kj f'k{kk (Extension Education)

vks ih- /kkek (O. P. Dhama) ds vuq kj i d kj f'k{kk , d 'k\$kf.kd if0; k g\$ ftl ds ek/; e l s xkeh.kka dks mUUr Nf" k izkkyh ds fo" k; ea fo'okl in rjhds l s crk; k tkrk g\$ vks enn fd; k tkrk g\$ rkd os vius LFkkh; fLFkfr ds vuq kj fu.kz yus ea l {ke gkA

Extension nks y\$vu 'kCnka "Ex" rFkk "Tensio" ds l a ks l s cuk gA "Ex" dk vFkZ ckj vks "Tensio" dk vFkZ Q\$yuk gkrk g\$ vFkZ i d kj f'k{kk dk eryc Kku , oa d\$ky dk i d kj djuk gA

nh?kz mUkj; ç'u ds mUkj (Answer of long answer type questions)

- 16- (a) eDdk dk okuLifrd uke & ft; ks est (Zea mays. L)
- (b) eDdk dh [krh dsfy, mi ; Ør feVvh (Suitable soil)–
eDdk dk Ql y ty&teko ds ifr l osnu'khy gks ds dkj.k bl ds [krh dsfy, vPNh ty fudkl h okyh mi tkÅ cybz nkeV l s nkeV feêh ftl ea t\$kk i pj ek=k ea gks rFkk ftl dk ih, p- eku 5-5 l s 7-5 ds chp gks mi ; Ør ekuk tkrk gA
- (c) eDdk Ql y dk cht nj (Seed rate)– 20 fd-xk- ifr g\$Vj
- (d) mUUr i Hkn (Improved variety)–
eDdk ds [kjH 1/25 ebZ l s 15 tu 1/4 jch 1/15 vDVj l s 10 uoEcj 1/2 , oa tk; n 1/15 Qojh l s 10 vi \$y 1/2 Ql yka dsfy, mUUr l dj i Hkn (hybrid variety) g\$
(i) 'kfdreku&1; (ii) 'kfdreku&2; (iii) xack&11 , oa l dty i Hkn (Composit variety) g\$ (i) l vku ; (ii) n\$dhA
- (e) eDdk ds jks , oa ml dk fu; æ.k (Disease and their control)– eDdk ds eq; jks g\$ dMok jks (Smut of May) ftl dk dkjd g\$ vf"Vykxka e\$MI (Ustilago Maydis) bl ea vkØkar Hk\$Vs l s dkyk chtk.kq p\$vkz fudyrk gA
bl dk fu; æ.k& Ql y pØ viukdj] vkØkar i \$kka dks gvkdj rFkk fojko\$ k 2 xke ifr yHvj i kuh ea ?k\$ydj fNMelko djdsfd; k tk l drk gA

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- (a) elj dk okuLifrd uke (Botanical name of Lentil) yd D; fyu\$jl (Lens culinaris M.)
- (b) mi ; Ør feêh (Suitable soil)–elj dh [krh l Hkh izdkj ds feêh ea dh tkrh g\$ i jUr cybz nkeV] nkeV rFkk Hkjh feêh ea [krh l s vPNh mi t iklr gkrh gA

- (c) cht nj (Seed rate)–el y ds NkV/s nkus dh iztkfr ds fy, 30&35 , oa cM@s nkus dh iztkfr ds fy, 40&45 fdykskte@gDVj rFkk ijk QI y ds fy, 50&60 fdykskte@gDVj el y cht iz ks fd;k tkrk gA
- (d) mlur iHkn (Improved Variety)–(i) iH, y-&406(ii) vkbzi H, y-&408((iii) efYydk (d&75); (iv) iH, Q-&639(v) ujnH el y&1
- (e) el y ds jks , oa ml dk fu; æ.k& el y ds e[; jks 'LrHk ewy l f/k xyu jks* (Collar rot) gS ftl dk dkjd , dyjks'k; e jks'QI kbZ (Sclerotium rolfsii) gS ftl ds dkj.k i kks 'kko voLFkk ea gkshyh gkdj ej>k tkrh gA
bl ds funku ds fy, xfez ka ea [kr dk xgjh t'rkbl dj c'rkbl ds le; 4 xte VrbZkMekZ rFkk 1 xte ohVkdI @ csjLVhu doduk'kh }kjk cht mipkj djuk pkfg, A

- 17- (a) vkyw dk okuLifrd uke (Botanical name)–l kysue V; wjkl e (*Solanum tuberosum*)
- (b) ifjokj (Family)–l kysud h (Solanaceae)
- (c) cht nj (Seed rate)–20-25 Doh/y@gDVsj
c'rkbl ds fy, 20&25 xte otu , oa 1 l fEhE vj[kq okys vkyw dk mi; ks fd;k tkrk gA dkV dj cks dh n'kk ea , d VpM@s ea de l s de rhu vk[ks gksh pkfg, A
- (d) mlur iHkn (Improved variety) :
(i) vxsrh iHkn % dQjh plne[kh] dQjh v'kkdk] dQjh l w ka
(ii) e/; e iHkn % dQjh i[kjkt] dQjh tokgj] dQjh vkulnA
(iii) fiNrsh iHkn % dQjh fl Ungjh] dQjh ckn'kkg] dQjh fpQ l kuka
- (e) vkyw ds jks , oa fu; æ.k (Disease control) : vkyw ea >y[kk jks QQnh tud jks gA bl ds fu; æ.k ds fy, MkbFksu , e&45 dk 2-5 fd(ExtE ifr gDVj dh nj l s fNMelko fd;k tkrk gA

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- (a) /kfu;k dk okuLifrd uke (Botanical name)–dkfj , .M@ l Vkboe (*Coriandrum sativum*)
- (b) ifjokj (Family)–, fi , l h (Apiaceae)
- (c) /kfu;k dk cht nj (Seed rate) :– 20 l s 25 fd(ExtE@gDVsj
cht okyh QI y ds fy, %& 20 l s 25 fd(ExtE@gDVsj
- (d) /kfu;k ds mlur iHkn (Improved variety) :

Leky fl MM] i r gfjrek] ckyM fl MM] , u(Ei hE 1/4MhE1/2&92

- (e) /kfu; k ds jksx , oafu; æ.k (Disease and their control) :
 - (i) 'kw xky %bl jksx dk fu; æ.k&jksx fujkskh fdLeka dk pqko dj , oa Fkhje ; k ds; u dh 3 xte ek=k i fr fdyks xte ds chtki pkj dj fd; k tkrk gA
 - (ii) mdBk jksx 1/4cYV1/2 % , xksku th, u ; k Fkhje ds 2 xte }kjk , d fdykskte cht dk chtki pkj dj fd; k tkrk gA
 - (iii) i kMjh feyM; w % /kfu; k ds Qwy vkus dh voLFkk ea 15 fnuka ds vUrjky ij dj kFksu ds 0-05% ?kksy l sfNMeko dj jksx fu; f=r fd; k tk l drk gA

18- Nf'k foi .ku ea 'kkfey gkus okys dk; dUkkZ (Workers involve in Agricultural marketing)

- (i) xte dpgjh (Village Court)
- (ii) deh'ku , tV (Commission agent)
- (iii) vk<fr; k@xteh.k 0; ki kjh (Arhatia / Village merchant)
- (iv) nyky&(Dalal / Brokers)
- (v) rky djuokyk (Measurer) :
- (vi) Fkksd 0; ki kjh&(Wholesaler)
- (vii) Q/dj 0; ki kjh (Retailer) :
- (viii) cksks dks j [kus , oafudkyus okyA
- (v) rky djuokyk (Measurer) :

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Nf'k fodkl ea i l kj f'k{kk dk mnas; (Aims of extension education for the development of Agriculture)

fdl ku ds l okxh.k fodkl ds Oe ea i R; d fdl ku ds ifjokj , oa l epk; dks vk/Fkd] cks) d , oa l keftd fodkl gsrq tu Hkkxhnhkj l fuf'pr djukA

fdl ku ds dfBukb; k vko' ; drk vka dks Kkr djus ea enn djukA

fdl kuka ea usRo dh [kks vkj l enj ds xBu ea enn djuk ftl l smuds dfBukb; ka dk gy <k tk l dA

Nf'k 'kksk , oa i k; ksd vutko l s l ca/kr l puk , oa Kku dk bl rjg foLrkj djuk ftl l sfdl ku ml svi ukdj mi ; ksx djA

vuq akku dUkkZ , oa Nf'kd ds chp dMh dk dke djuk ftl l s vko' ; drk ds vuq i 'kksk dj gy <k tk l dA

CHAPTER WISE DISTRIBUTION

Topics	Total allotted marks	Long type	Short Type	Objective
Classification and cultivation of crops with cropping system	20	1(5)	3(2)	9(1)
Soil, water and weed management	10	—	2(2)	6(1)
Recent Agricultural technology and economics.	10	1(5)	1(2)	3(1)
Basic Horticultural knowledge and production of fruit and plantation crop	11	—	1(2)	9(1)
Production and cultivation of vegetables, spices, flower, medicinal, aromatic plant and extension education	19	1(5)	3(2)	8(1)
	70	3(15)	10(20)	35(35)