

**CLASS : 10th (Secondary)**

**3562/3512**

**Series : Sec. M/2018**

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**MARKING INSTRUCTIONS AND MODEL ANSWERS**

**AGRICULTURE**

*(Academic/ Open)*

*(Only for Fresh/ Re-appear Candidates)*

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*उप-परीक्षक मूल्यांकन निर्देशों का ध्यानपूर्वक अवलोकन करके उत्तर-पुस्तिकाओं का मूल्यांकन करें। यदि परीक्षार्थी ने प्रश्न पूर्ण व सही हल किया है तो उसके पूर्ण अंक दें।*

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**General Instructions :**

- (i) Examiners are advised to go through the general as well as specific instructions before taking up evaluation of the answer-books.*
- (ii) Instructions given in the marking scheme are to be followed strictly so that there may be uniformity in evaluation.*
- (iii) Mistakes in the answers are to be underlined or encircled.*
- (iv) Examiners need not hesitate in awarding full marks to the examinee if the answer/s is/are absolutely correct.*
- (v) Examiners are requested to ensure that every answer is seriously and honestly gone through before it is awarded mark/s. It will ensure the authenticity as their evaluation and enhance the reputation of the Institution.*
- (vi) A question having parts is to be evaluated and awarded partwise.*

**3562/3512**

**P. T. O.**

- (vii) If an examinee writes an acceptable answer which is not given in the marking scheme, he or she may be awarded marks only after consultation with the head-examiner.
- (viii) If an examinee attempts an extra question, that answer deserving higher award should be retained and the other scored out.
- (ix) Word limit wherever prescribed, if violated upto 10%. On both sides, may be ignored. If the violation exceeds 10%, 1 mark may be deducted.
- (x) Head-examiners will approve the standard of marking of the examiners under them only after ensuring the non-violation of the instructions given in the marking scheme.
- (xi) Head-examiners and examiners are once again requested and advised to ensure the authenticity of their evaluation by going through the answers seriously, sincerely and honestly. The advice, if not heeded to, will bring a bad name to them and the Institution.

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**महत्त्वपूर्ण निर्देश :**

- (i) अंक-योजना का उद्देश्य मूल्यांकन को अधिकाधिक वस्तुनिष्ठ बनाना है। अंक-योजना में दिए गए उत्तर-बिन्दु अंतिम नहीं है। ये सुझावात्मक एवं सांकेतिक है। यदि परीक्षार्थी ने इनसे भिन्न, किन्तु उपयुक्त उत्तर दिए हैं, तो उसे उपयुक्त अंक दिए जाएँ।
- (ii) शुद्ध, सार्थक एवं सटीक उत्तरों को यथायोग्य अधिमान दिए जाएँ।

- (iii) परीक्षार्थी द्वारा अपेक्षा के अनुरूप सही उत्तर लिखने पर उसे पूर्णांक दिए जाएँ।
- (iv) वर्तनीगत अशुद्धियों एवं विषयांतर की स्थिति में अधिक अंक देकर प्रोत्साहित न करें।
- (v) भाषा-क्षमता एवं अभिव्यक्ति-कौशल पर ध्यान दिया जाए।
- (vi) मुख्य-परीक्षकों/उप-परीक्षकों को उत्तर-पुस्तिकाओं का मूल्यांकन करने के लिए केवल Marking Instructions/Guidelines दी जा रही है, यदि मूल्यांकन निर्देश में किसी प्रकार की त्रुटि हो, प्रश्न का उत्तर स्पष्ट न हो, मूल्यांकन निर्देश में दिए गए उत्तर से अलग कोई और भी उत्तर सही हो तो परीक्षक, मुख्य-परीक्षक से विचार-विमर्श करके उस प्रश्न का मूल्यांकन अपने विवेक अनुसार करें।

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**Note :** Out of first **four** questions only **three** are to be answered each has **four** marks.

Notes may be carefully marks are given against each question. Possible answers are given below :

1. Wheat is staple food for millions of in the country. It is consumed almost all over the country. It is very important rabi crop. It is very important food grain crop. Its main varieties are PBW 343, UP 2338, WH 283, WH 542, WH 711, PBW 373, Raj 3765, C 306, HD 2687, WH 147, DBW 17 etc. Method of sowing is by seed drill or

with seed cum fertilizer drill or with pora only in rows. It is also shown by broadcasting but it is very less. It is harvested either by sickle or with reaper cum binder, or with combine harvester.

2. Chilies as important crop it is almost used in all vegetables preparations. It has medicinal value. It is used as salad, pickles and many other ways. Its main varieties are HC-44, HC-28, NP 46-A, Pusha Jawala, CO 2, Jawahar Mirch, Pusha Sadabahar, Punjab Lal and hybrid. It is shown by seed in small beds and then transplanted in main fields in rows. It is used both as green and also drying.
3. Rabi crops are wheat, barley, gram, mustard, potato, carrot, radish, turnip, cauliflower while Kharif crops are Rice, cotton, maize, cluster bean , millets (Bajra), tomato, lady finger, brinjal, all vine crops like tory pumpkeen, watermelon, sunflowers, musk melon, kheera, tomato, chilies.
4. Name of the implement are disc harrow, cultivator, rotavator, seed drill, seed cum fertilizer drill, potato planter, potato digger, combine harvester, thresher, baler, happy seeder, reaper, ridge former, mould board plough, disc plough, tractor operated sprayer, trolley, reverse plough etc.

5. Only **six** are to be answered :

**Answer**

- (i) Main dry land areas Bhiwani, Jhajjar, Rohtak, Mohindergarh, Sirsa, Meawt, Parts of Hissar, Ambala, Ymunanagar, Panchkula etc. Moisture conserving methods are proper bunding of fields, planking after ploughing, deweeding mulching and use of ridge and furrows for sowing.
- (ii) Canal irrigation is very popular and useful for farmers. Water in canal comes from main dam (Bhakhra) and barrage (Like on Ymuna river at Hathni). Then water is taken by gravity in the plains through net work of canals and minors. There after is guided by water courses into farmers field on warrabandi basis.
- (iii) Tractors are cooled by a system of cooling system where water is filled in radiator. Then water is cooled with the help of a fan and it circulated in ducts.
- (iv) Beekeeping is also one of the main economic activity. The output from beehive is honey which is sold in the market. Bee colonies are kept in the area crops and good amount of vegetation is available. Bees collect the nectar from flowers and deposit in the beehive where queen is there. It is disciplined insect.

- (v) Wine vegetables are pumpkin, gourd (Tori), summer squash (chapan kadu), Tinda, cucumber, beans, bottle gourd (Ghia), bitter gourd (Kerala), Kheera, kakri etc.
  - (vi) Main varieties of maize are Navjot, Prabhat, Ganga-5, HHM-1, HHM-2, HQPM-1, Kanchan- HM-4 etc.
  - (vii) Crops which provide grains and fodder are wheat, gram, barley, millets (Bajra), maize, Fodder crops are barseem, sorghum (Jawar), Lucerne, Jai sugar tops, etc.
6. (i) De-weeding methods are mechanical (by using tools like cultivator, hand hoe, wheel hand hoe,), chemical-by using chemicals and biological-by change of cropping pattern etc.
- (ii) Main implements used for sowing are seed drills, seed cum fertilizer drill, pora attached with plough, planter, dibbler and broad casting.
- (iii) Drains are constructed in the low lying area to drain out the excess water from low lying area which is harmful to crops and others.
- (iv) The vegetables which are sown with transplanting are chilies, brinjals, onion, garlic, cauliflowers, tomato etc.

- (v) Main varieties of cotton are Deshl HD.107, HD123, HD 324, American cotton H 974, H1117, H1098, Hybrid seeds are HHH81, HHH287, LHH1444 HHH223 and Bt cotton are RCH, MRC, ACH Series and many more.
- (vi) Main oil seed crops are mustard ground nut, cotton, sunflower, toria, linseed (Alsi), til etc.
- (vii) Main parts of tractors are Engine, gear box, steering, wheel, tyres, radiator, dynamo, battery, diesel tank, tie rod ends, lifts accelerator, brakes etc.
- (viii) Inputs needed for crop production are water, seed, sunlight, fertilizers, pesticides, sowing and cultivating equipment.
- (ix) Kitchen is small portion of land near the house where vegetables are grown as the need of the house. Small beds are made where vegetables are grown with proper care as per the season.
- (x) Animal husbandary is an important activity of farmers where milch and other cattle are reared. Some people also sell milk and its other product and can have a good source of income. Animal also provide dung which is used for making FYM. Animals are used for draft purposes, now less and for transport.

7. Only **twelve** are to be answered, each has **one** mark. Answer are to be given in **right** or **wrong** :

$$12 \times 1 = 12$$

- (i) right
- (ii) right
- (iii) right
- (iv) right
- (v) right
- (vi) wrong
- (vii) wrong
- (viii) right
- (ix) right
- (x) right
- (xi) wrong
- (xii) right
- (xiii) right

