

AGRICULTURE

Paper—I

Time Allowed: Three Hours

Maximum Marks: 200

INSTRUCTIONS

Candidates should attempt Question Nos. 1 and 5 which are compulsory, and any THREE of the remaining questions, selecting at least ONE question from each Section.

The number of marks carried by each part of a question is indicated against each.

Answers must be written in ENGLISH only.

Important Note :--

All parts/sub-parts of a question must be attempted contiguously. That is, candidates must complete attempting all parts/sub-parts of a question being answered in the answer-book before moving on to the next question.

Pages left blank, if any, in the answer-book(s) must be clearly struck out. Answers that follow pages left blank may not be given credit.

-1-

(Contd.)

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SECTION—A

- Write critical comments on the following, each not exceeding
 150 words: 5×8=40
 - (a) Integrated nutrient management and nutrient use efficiency
 - (b) Principles of reclamation of alkali soils
 - (c) System of rice intensification
 - (d) Selectivity of herbicides
 - (e) Eutrophication of water bodies.
- 2. Describe in detail (about 200 words each):— 4×10=40
 - (a) Agroecosystem and its components
 - (b) Greenhouse gases and their impact on plant growth
 - (c) Role of calcium, alumina and pH in Phosphate fixation
 - (d) Agri-silviculture versus silvipasture.
- 3. Write short notes on the following (about 200 words each):—

 4×10=40
 - (a) Intercropping—advantages and disadvantages
 - (b) Soil nitrogen loss through denitrification
 - (c) Integrated farming system
 - (d) Significance of seed replacement rate (SRR).

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- 4. Discuss the package of practices of maize, arhar, sesame and potato crops under following heads:— 5×8=40
 - (a) Seed rate and spacing between rows and plants
 - (b) N, P and K nutrient application
 - (c) Recommended weed control practices
 - (d) Critical stages of irrigation
 - (e) Average yield (q/ha).

SECTION—B

5. Answer the following in about 150 words each :—

 $5 \times 8 = 40$

- (a) Discuss types of Watershed. What are the salient features of the National Watershed Development Programme for Rainfed Areas (NWDPRA)?
- (b) Techniques of reducing evaporation and evapotranspiration losses under dry land agriculture.
- (c) In situ water conservation methods.
- (d) Concept of minimum tillage and how it differs from zero tillage.
- (e) Interaction of households and business firms in our economy (Highlight with the help of flow chart).

-3-

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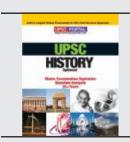
- 6. Describe the following in brief (about 200 words each):—
 4×10=40
 - (a) The role and salient features of the Agricultural Technology Management Agency (ATMA).
 - (b) Need of skill development in adoption of improved technologies.
 - (c) Factors responsible for the slow progress of Cooperative Movement in India.
 - (d) Situations of partial and complete farm budgeting.
- 7. Write short notes on the following in about 200 words each:—

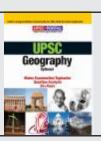
 4×10=40
 - (a) Maximum net return (Profit) in terms of total cost and total return (Explain with the help of diagram)
 - (b) National Agricultural Innovation Project (NAIP)
 - (c) Group contact and mass contact
 - (d) Concept of farmers field school.
- 8. Differentiate between the following (in about 200 words each):—

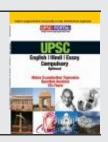
 4×10=40
 - (a) Monitoring and evaluation
 - (b) Teaching and training
 - (c) Frontline demonstration and method demonstration
 - (d) Conventional and PRA method of survey.

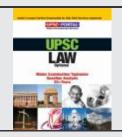
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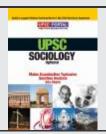
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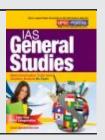






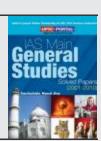




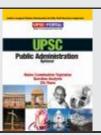












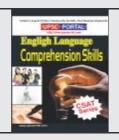
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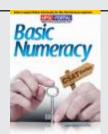
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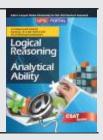
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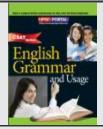


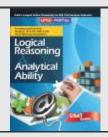




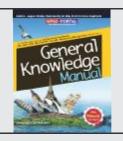




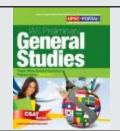




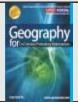


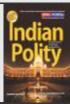




















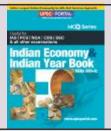
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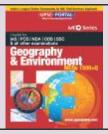
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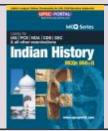
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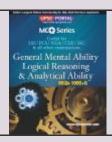


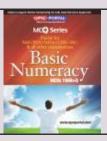


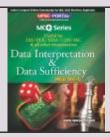
















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