RET/15/Test B

747

Horticulture

| | | | | 26 | Questic | on Booklet No | 90 | |
|--------------|------------|-------------|------------|----|---------|------------------|-------------------|-----|
| _ | (To L | e filled u | p by the o | | | /black ball-poin | | |
| Roll No. | | | | | | | | |
| Roll No. (W | rite the d | ligits in v | vords) | | | | | |
| Serial No. o | | | | | | | | |
| Day and Da | te | | | | | | | |
| | | | | | | (Signati | are of Invigilato | or) |

INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- 1. Within 10 minutes of the issue of the Question Booklet, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
- 2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet
- 4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space
- 5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.
- 7. Any changes in the aforesaid-entries is to be verified by the invigilator, otherwise it will be
- 8. This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.
- 9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded
- 11. For rough work, use the inner back page of the title cover and the blank page at the end
- 12. Deposit both OMR Answer Sheet and Question Booklet at the end of the Test.
- 13. You are not permitted to leave the Examination Hall until the end of the Test.
- 14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such

FOR ROUGH WORK

Research Entrance Test - 2015

No. of Questions: 50

Time: 2 Hours

Full Marks: 200

Note: (i) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.

- (ii) Attempt as many MCQs as you can. Each MCQ carries 3 (Three) marks. 1 (One) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
- (iii) Answer only 5 Short Answer Questions. Each question carries 16 (Sixteen) marks and should be answered in 150-200 words. Blank 5 (Five) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

| 1. | "Fluid mosaic model" relates to the | he structure | of: | |
|----|--|--------------|-------------------|---------------------|
| | (1) Cell wall | (2) | Protoplasm | |
| | (3) Plasma membrane | (4) | Nucleic acid | |
| 2. | Spongy tissue of mango is a: | | | |
| | (1) Bacterial disease | (2) | Physiological d | isease |
| | (3) Viral disease | - A: III | Fungal disease | |
| 3. | A purpose of initiating a conscio | | | called: |
| J. | | | Action | (4) Coordination |
| | | 1011 (5) | | |
| 4. | Yellow colour of egg is due to: | -h11 (3) | Anthocyanin | (4) Vitamin B |
| | (1) Carotene (2) Xanthop | , | | |
| 5. | During prophase-I of meiosis cro | (-1 | occurs at : | (4) Diakinesis |
| | (1) Zygotene (2) Pachyte | | Diplotene | |
| 6. | In which crop the use of Blue | -Green Alg | ae as a bio-fert | ilizer will be most |
| | useful? | | | (4) Sugarcane |
| | (1) Maize (2) Potato | | Rice | (4) Sugareas |
| 7. | Lycopene pigment is present in | : | | (4) Chilli |
| | (1) Beetroot (2) Tomato | (3) | Radish | (4) Clim |
| 8. | Ooze test is done to detect: | | | |
| | (1) Bacterial disease | (2) | Fungal disease | |
| | | (4) | All of these | |
| | (3) Viral disease Number of chromosome in who | eat endospe | rm is: | |
| 9. | Number of chromosome at with | (2) | 42 | |
| | (1) 21 | |) 14 | |
| | (3) 63 | , | | |
| 10 | . Acridine orange is used for ind | iucing. |) Mutagenesis | 1 |
| 10 | denaturation | (- | | odustion (1) |
| | (1) DNA (3) Chiasma formation | (4 |) Bacterial trans | sauction |
| | (3) Chlass | | | |
| | | | | |

| 11. | Bronzing in guava is caused du | ue to deficiency of |
|-----|-----------------------------------|---|
| | (1) Mn | (2) Mo |
| | (3) Z.n | (4) P |
| 12. | Which growth regulator is used | d to reduce the period of chilling requirement? |
| | (1) NAA | (2) IBA |
| | (3) Cytokinin | (4) GA ₃ |
| 13. | "Swarn Roopa" is an important | cultivar of |
| | (1) Pear | (2) Litchi |
| | (3) Persimmon | (4) Citrus |
| 14. | Who is known as "Father of Sys | stematic Pomology" ? |
| | (1) M. S. Swaminathan | (2) Williams |
| | (3) De Candolle | (4) B. P. Pal |
| 15. | "Butter Fruit" is the nick name o | |
| | (1) Avocado | (2) Apricot |
| | (3) Cashew | (4) Guava |
| 16. | The chromosome number of Bae | |
| | (1) 18 | (2) 36 |
| | (3) 26 | (4) 24 |
| 17. | Genomic constitution of FHIA-I | (Gold Finger) is |
| | (1) AAAA | (2) AAAB |
| | (3) ABBB | (4) AAA |
| 18. | Type of inflorescence in grape is | (1) AAA |
| | (1) Solitary | (2) Spadix |
| | (3) Panicle | (4) Catkins |
| | Tost 8/747 | |

| 19. | Hen and Chicken disorder is commor | nly found in |
|-----|---------------------------------------|---|
| | (1) Citrus | (2) Guava |
| | (3) Panicle | (4) Grape |
| 20. | Parents of mango variety Arka Punee | et are |
| | (1) Banganpalli × Alphonso | |
| | (2) Neelam × Alphonso | |
| | (3) Alphonso × Banganpalli | |
| | (4) Neelam × Banganpalli | |
| 21. | Aroma containing compound presen | t in onion is |
| | (1) Diallyl disulphide | (2) Allypropyl disulphide |
| | (3) Dimethyl disulphide | (4) Isothiocyanate |
| 22. | "Pusa Parvati" is mutant variety of | |
| | (1) French bean | (2) Cowpea |
| | (3) Cluster bean | (4) Garden pea |
| 23. | On the basis of photoperiod requirer | nent sweet potato is classified as |
| | (1) Short day plant | (2) Long day plant |
| | (3) Day neutral plant | (4) Long-short day plant |
| 24. | Which of the vegetable crop is C4 pla | ant? |
| | (1) Carrot | (2) Potato |
| | (3) Amaranthus | (4) Bean |
| 25. | Tomato leaf curl is transmitted by | (2) Anhids |
| Lo | (1) Thrips | (2) Aphids (4) Bees |
| | (3) White fly | umber of fruit setting takes place in brinjal? (2) Medium styled |
| 26 | In which type of nower maximum in | |
| | (1) Long styled | (4) Pseudo short styled |
| | (3) Short styled | |
| | 27/17 | (4) |

| 27 | "Big bub" in tomato is caused du | e to |
|-----|---|---|
| | (1) Fungus | (2) Mycoplasma |
| | (3) Bacteria | (4) Virus |
| 28. | . "Pusa Mukta" is variety of | |
| | (1) Cauliflower | (2) Cabbage |
| | (3) Knol-khol | (4) Turnip |
| 29. | "Pusa Chikni" is variety of | |
| | (1) Ridge gourd | (2) Sponge gourd |
| | (3) Bitter gourd | (4) Bottle gourd |
| 30. | Seed rate of potato (TPS) for one | ha area is |
| | (1) 150 g | (2) 200 g. |
| | (3) 100 g. | (4) 300 g. |
| 31. | Which of the following cut rose v | ariety is good for protected cultivation? |
| | (1) Red Beauty | (2) Grand Gala |
| | (3) Jawahar | (4) Priyadarshini |
| 32. | Slabside is a physiological disorde | |
| | (1) Rose | (2) Orchid |
| | (3) Gladiolus | (4) Carnation |
| 33. | Which of following institute dev Sharad Singar of chrysanthemum? | veloped 'no pinch cultivara' II-11: |
| | (1) IARI | (2) NBRI |
| | (3) IIHR | (4) IHBT |
| 34. | Bougainvillea variety Thimma is b | |
| | (1) Archana | (2) Mary Palmer |
| | (3) Rao | (4) Maharaja of Mysore |
| | | Wiysore |
| | | |

| 35. | Which of the following flowering pla | ant family has largest species? |
|-----|--|---------------------------------|
| | (1) Compositae | (2) Rosaceae |
| | (3) Orchidaceae | (4) Malvaceae |
| 36. | What are the parentage of Tea rose? | |
| | (1) Rosa gallica × Rosa centifolia | |
| | (2) Rosa multiflora × Rosa wichuraiana | 7 |
| | (3) Rosa centifolia × Rosa gallica | |
| | (4) Rosa chinensis × Rosa gigantean | |
| 37. | Who laid out Rashtrapati Bhawan C | arden at New Delhi? |
| | (1) Lord Curzon | (2) K. Mori |
| | (3) Sir Edwin Lutyens | (4) Shah Jahan |
| 38. | Which type of gardens developed b | y Le Notre? |
| | (1) French | (2) Japanese |
| | (3) English | (4) Italian |
| 39. | Biggest cut flower market is located | at |
| | (1) Tokyo | (2) Paris |
| | (3) Aalsmeer | (4) New York |
| 40. | a de la misma aladiolus breed | er in India ? |
| | (1) T. M. Rao | |
| | (2) S. P. S. Raghava | |
| | (3) B. K. Banerji | ti . |
| | (4) Bajaran Bahadur Singh Bhada | ri |
| | | |

Attempt any five questions. Write answer in 150-200 words. Each question carries 16 marks. Answer each question on separate page, after writing Question Number.

- 1. What is crop regulation? Give an account of crop regulation in guava.
- 2. Discuss the genomic classification and nomenclature of banana.
- 3. Enumerate the various factors causing pre-harvest fruit drop in mango and citrus.
- 4. Write reason of bent neck in rose and write remedy of bent neck in rose.
- Write types of male sterility in marigold and its importance in hybrid seed production.
- **6.** What are the reasons and conditions of more attack of thrips in rose? Write control measures of thrips in roses.
- 7. What is osmodehydration? Discuss the method of osmodehydration in mango.
- 8. Discuss in brief fruit cracking in tomato.
- 9. Discuss in brief seed plot technique in potato.
- 10. Explain in brief the sex forms in cucurbits and their role in pollination, fruit set and seed production.

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FOR ROUGH WORK

