

Question Booklet No.

(To be filled up by the candidate by blue/black ball-point pen)

Roll No.

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Roll No. (Write the digits in words)

Serial No. of OMR Answer Sheet

Day and Date

(Signature of Invigilator)

INSTRUCTIONS TO CANDIDATES

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

1. Within 30 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 shall not be provided.
4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
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 taken as unfair means.
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 zero marks).
11. For rough work, use the inner back pages of the title cover and the blank page at the end of this Booklet.
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 punishment as the University may determine and impose on him/her.

[उपर्युक्त निर्देश हिन्दी में अन्तिम आवरण-पृष्ठ पर दिये गये हैं।]

Total No. of Printed Pages : 16

SEAL

FOR ROUGH WORK

100-100000-100000

Research Entrance Test – 2018

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. Which of the following is referred as Buffalo grass ?
(1) Para grass (2) Napier grass (3) Setaria grass (4) Guinea grass
2. Who is known as "Father of White Revolution in India" ?
(1) Dr. M. S. Swaminathan (2) Dr. J. J. Chinoy
(3) Dr. R. S. Paroda (4) Dr. Verghese Kurien
3. A character which is expressed in hybrid is called :
(1) Epistatic (2) Co-dominant (3) Dominant (4) Recessive
4. First antibiotic isolated was :
(1) Neomycin (2) Streptomycin (3) Terramycin (4) Penicillin
5. Mycorrhiza is the :
(1) Parasitic association between fungus and roots of seed plants
(2) Symbiotic association between fungus and roots of seed plants
(3) Saprophytic association between fungus and roots of seed plants
(4) Symbiotic association between bacteria and the roots of seed plants
6. Growing of complete plant from a cell is known as :
(1) Totipotency (2) Axenic culture
(3) Clone formation (4) Micro propagation
7. Clay soil particle size is :
(1) Less than 0.002 mm (2) Between 0.002-0.02 mm
(3) Between 0.02-0.2 mm (4) More than 2 mm
8. Which bacteria is useful for "Dairy Industry" ?
(1) *Clostridium acetobutyricum* (2) *Bacillus megatherium*
(3) *Acetobacteria aceti* (4) *Bacterium acidi lactic*
9. The silkworm *Bombyx mori* is fed on :
(1) Rose leaves (2) Mulberry leaves
(3) Hibiscus leaves (4) Gladiolus leaves
10. Sansad Adarsh Gram Yojana (SAANJHI) was launched on :
(1) November, 2005 (2) January, 2010
(3) October, 2014 (4) March, 2017

11. Choose the right statement :
- (1) Lemon is frost resistant
 - (2) Pummelo is monoembryonic
 - (3) Rangpur lime is resistant to Exocortis
 - (4) Karna Khatta is native to China
12. Citrange is a cross between :
- (1) Trifoliolate orange x Sweet orange
 - (2) Trifoliolate orange x Mandarin
 - (3) Mandarin x Sweet orange
 - (4) Sweet lime x Mandarin
13. What is the parentage of Konkon Ruchi :
- (1) Alphanso x Neelam
 - (2) Alphanso x Bombay Green
 - (3) Gulabkhas x Bombai
 - (4) Neelam x Alphanso
14. Which one of the following is the main cause for development of colour pigment in the flavedo of mature ripe orange fruit ?
- (1) Hesperidin
 - (2) Naringin
 - (3) Carotene
 - (4) Chlorophyll
15. Sardar (Lucknow - 49) variety of guava is a selection by :
- (1) R. N. Singh
 - (2) G. S. Cheema
 - (3) D. K. Uppal
 - (4) K. L. Chadha
16. The powdery mildew disease in mango can be controlled by :
- (1) Copper Oxchloride
 - (2) Streptomycin
 - (3) Diametheoate
 - (4) Dinocap
17. Choose the wrong pair :
- (1) Guava chromosome no. $2n = 22$
 - (2) Wood apple chromosome no. $2n = 18$
 - (3) Karonda chromosome no. $2n = 10$
 - (4) Custard apple chromosome no. $2n = 14$

18. Notching is commonly practiced in :
- (1) Grape (2) Fig
(3) Mango (4) Date palm
19. Control of any deviation in atmospheric gas composition with specific gas composition of N_2 , CO_2 and O_2 in storage system is called :
- (1) Modified atmosphere storage (2) Cold storage
(3) Controlled atmosphere storage (4) Hypobaric storage
20. Fitragol is a :
- (1) Growth hormone (2) Acid
(3) Juice (4) Pectin - decomposing enzyme
21. Horse radish tree is the common name of which vegetable crop :
- (1) Bread fruit (2) Drumstick
(3) Asparagus (4) Rhubarb
22. Edible part of Asparagus is :
- (1) Root (2) Fruit
(3) Tender shoot (4) Flower
23. Which of the vegetable is often cross pollinated :
- (1) Cow pea (2) Winged bean
(3) Broad bean (4) Lima bean
24. In which type of flower maximum no. of fruit setting takes place in brinjal :
- (1) Long styled (2) Short styled
(3) Pseudo short styled (4) Medium styled
25. Krishna is a hybrid variety of :
- (1) Brinjal (2) Tomato
(3) Chilli (4) Potato

26. Root-knot nematode resistant variety of tomato is :
- (1) Sel. 120 (2) Pusa Uphar
(3) Pusa Sheetal (4) Pusa Ruby
27. Arka Suryamukhi is an improved variety of :
- (1) Musk melon (2) Winter squash
(3) Pumpkin (4) Summer squash
28. Golden nematode is a serious pest of :
- (1) Tomato (2) Cabbage
(3) Potato (4) Brinjal
29. Pusa Kirti is a variety of :
- (1) Amaranthus (2) Fenugreek
(3) Spinach (4) Palak
30. The edible part of globe artichoke is :
- (1) Leaves (2) Immature flower heads
(3) Roots (4) Stems
31. What are the parentage of Tea rose ?
- (1) *Rosa gallica* × *Rosa centifolia*
(2) *Rosa multiflora* × *Rosa wichuraiana*
(3) *Rosa centifolia* × *Rosa gallica*
(4) *Rosa chinensis* × *Rosa gigantean*
32. Parentage of gladiolus cultivar Pusa Unnati are :
- (1) Ave × Christian Jane
(2) Jr. Prom × Lucky Star
(3) Berlew × Heady Wine (Tall)
(4) Sylvia × Patricia

33. Chalking is physiological disorder of :
- (1) Tulip (2) Gerbera
(3) Liatris (4) Rose
34. Which of the following is botanical name of Ashwagandha ?
- (1) *Digitalis purpurea* (2) *Cassia angustifolia*
(3) *Withania somnifera* (4) *Atropa belladonna*
35. Strelitzia is commonly known as
- (1) Cock's comb (2) Straw flower
(3) Bird of Paradise (4) African Daisy
36. Fire disease in tulip is caused by :
- (1) *Oplidium brassicae* (2) *Botrytis tulipae*
(3) *Pythium ultimum* (4) *Dysaphis tulipae*
37. 'Blind Shoot' is physiological disorder of
- (1) Tuberose (2) Rose
(3) Carnation (4) Gerbera
38. Which of the following is climber ?
- (1) *Quisqualis indica* (2) *Delonix regia*
(3) *Tecoma grandis* (4) *Thevetia nerifolia*
39. What is basic chromosome number of Chrysanthemum ?
- (1) $X = 5$ (2) $X = 16$
(3) $X = 21$ (4) $X = 9$
40. In which flower crop pinching is important operation ?
- (1) Gladiolus (2) Tuberose
(3) Carnation (4) Gerbera