

(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 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 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 page 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.

Total No. of Printed Pages : 15

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 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 disease
 (3) Viral disease (4) Fungal disease
3. A purpose of initiating a conscious and purposeful action is called :
 (1) Education (2) Motivation (3) Action (4) Coordination
4. Yellow colour of egg is due to :
 (1) Carotene (2) Xanthophyll (3) Anthocyanin (4) Vitamin B
5. During prophase-I of meiosis crossing over occurs at :
 (1) Zygotene (2) Pachytene (3) Diplotene (4) Diakinesis
6. In which crop the use of Blue-Green Algae as a bio-fertilizer will be most useful ?
 (1) Maize (2) Potato (3) Rice (4) Sugarcane
7. Lycopene pigment is present in :
 (1) Beetroot (2) Tomato (3) Radish (4) Chilli
8. Ooze test is done to detect :
 (1) Bacterial disease (2) Fungal disease
 (3) Viral disease (4) All of these
9. Number of chromosome in wheat endosperm is :
 (1) 21 (2) 42 (3) 63 (4) 14
10. Acridine orange is used for inducing :
 (1) DNA denaturation (2) Mutagenesis
 (3) Chiasma formation (4) Bacterial transduction

11. All the front line TOT projects of ICAR have been merged in :
(1) LLP (2) KVK (3) ATIC (4) NATP
12. Which one of the following is the latest project of ICAR ?
(1) IVLP (2) NAIP (3) NATP (4) KVK
13. BHOOMI PROJECT is an ICT initiative of :
(1) Kerala (2) Karnataka (3) Gujarat (4) Bihar
14. The cross checking of data in different ways is known as :
(1) PRA (2) RRA (3) PLA (4) Triangulation
15. Hypothesis testing is not required in case of :
(1) Ex-post facto (2) Experimental
(3) Descriptive research design (4) Exploratory research design
16. Attitude scale are used to measure :
(1) Judgment (2) Fact (3) Opinion (4) Decision
17. Which one of the following is not a type of validity ?
(1) Concurrent (2) Content (3) Construct (4) Context
18. Likert scaling is :
(1) Unipolar (2) Bipolar (3) Tripolar (4) Tetrapolar
19. Maximum limit of statement in pair comparison technique is :
(1) 10 (2) 11 (3) 12 (4) 13
20. The T-group training is known as :
(1) Laboratory training (2) Business games
(3) Simulation (4) Microlab

21. Ratio measurement has :
- (1) Absolute zero (2) Arbitrary zero
(3) No zero (4) Infinity
22. An entrepreneur's primary motivation for starting a business is :
- (1) To make money (2) To be independent
(3) To be powerful (4) To be famous
23. Which of the following was launched by the ICAR as a part of its golden jubilee celebration ?
- (1) LLP (2) KVK (3) ORP (4) ND
24. A defined base or population from which a sample is selected is known :
- (1) Sample (2) Universe
(3) Sample size (4) Sample technique
25. Sensory stimulation is more in :
- (1) Interpersonal communication (2) Mass communication
(3) Media communication (4) Group communication
26. Which one of the following is not a part of the 3 tier democratic decentralization ?
- (1) Village Panchayat (2) Caste Panchayat
(3) Panchayat samiti (4) Zilla Parishad
27. If there were a perfect positive correlation between two interval/ratio variables, the Pearson's r test would give a correlation coefficient of :
- (1) -1 (2) +1 (3) + 0.328 (4) - 0.328
28. Adopter category is based on :
- (1) Education (2) Awareness (3) Innovativeness (4) Innovation

29. The process by which information about new breed of cattle is spread through inter personal channel over a period of two years among the women members of village community will be suitably explained by :
- (1) Innovation (2) Diffusion
(3) Adoption (4) Communication
30. Management By Objective was first popularized by :
- (1) John Ferrington (2) F W Taylor
(3) Luther Gullick (4) Peter Drucker
31. Who introduced "noise" as an element in the model of communication process ?
- (1) Shannon and Weaver (2) Schramm
(3) Berlo (4) Leagans
32. M.S. Swaminathan research foundation launched which of the following programme with support of IRDC Canada in the year 1998 connecting 10 village by a hybrid wire and wireless network ?
- (1) Info village (2) e-choupal
(3) Bhoomi (4) Gyandoot
33. Data gathered through field work is :
- (1) Primary data (2) Secondary data
(3) Library data (4) Census data
34. Who is the chairman of National Institution for Transforming India Aayog ?
- (1) Prime Minister (2) Chief Minister
(3) Agriculture Minister (4) Development Commissioner

35. 'POSCORB' as management function was developed by :
- (1) Gullick & Urwik (2) Urwick
(3) L. Gulick (4) H. Fayol
36. PERT and CPM are techniques of :
- (1) Work allotment (2) Task analysis
(3) Decision of labour (4) Network analysis
37. Sociometric method was developed by :
- (1) Moreno (2) Fisher
(3) Abraham (4) Lincon
38. When various aspect of culture in society change at unequal rates, the situation will be explained by the theory of :
- (1) Social change (2) Globalization
(3) Sanskritization (4) Cultural lag
39. You cannot do everything and the employees need to take ownership of the job, the type of leadership is expressed by the situation :
- (1) *Autocratic* (2) Democratic
(3) *Laissez- faire* (4) Participative
40. As per 11th plan training need assessment at grassroots to be conducted by :
- (1) ATMA/SAMETI (2) KVK/SAD
(3) SAU's/KVK (4) NGO's/SAD

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. Philosophy of extension education is to teach people how to think, not what to think. Explain in the light of knowledge gained in this context.
2. Farmer field school is a school without wall. Justify the statement.
3. In a world of wants education is something far more restrictive and practical whereas in plenty education may connote literacy and wide learning. Justify the statement.
4. Making a person literate is to put "ideas" into his head. With the country up to neck in poverty, so many more literates will mean so many more frustrated individuals. Explain in the light of this context.
5. Discuss how social survey can be used in planning social welfare.
6. Discuss criteria for carrying out effective evaluation of an extension programme.
7. Telling your employees that a procedure is not working correctly and a new one must be established. Explain the statement.
8. Discuss any one ICT initiative agricultural programme in our country.
9. Discuss research issues in extension education.
10. Discuss the contribution of agricultural extension research in agricultural development.

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FOR ROUGH WORK

