

Set No. : 1

Question Booklet No.

**RET/16/TEST-B**

**740**

**Agricultural Economics**

(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 change 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.

Total No. of Printed Pages : 18

2. 19.

**ROUGH WORK**

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## Research Entrance Test-2016

**No. of Questions : 50**

**Time : 2 Hours**

**Full Marks : 200**

- Note:** (1) This Question Booklet contains **40** Multiple Choice Questions followed by **10** Short Answer Questions.
- (2) 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.
- (3) 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.

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**01.** Where is the International Rice Research Institute located ?

- |            |             |
|------------|-------------|
| (1) Manila | (2) Chicago |
| (3) Cairo  | (4) Cuttack |

**02.** Trypsin is basically what ?

- |                      |             |
|----------------------|-------------|
| (1) Fatty acid       | (2) Sugar   |
| (3) Oligo-nucleotide | (4) Protein |

**03.** GMO stands for what ?

- (1) Genetically Modified Organisms
- (2) Genetically Multiplied Organisms
- (3) Green Modified Organisms
- (4) Green Modified Orange

- 04.** Which international treaty was documented in 1987 and implemented in 1989, to avoid deleterious effects of ultra- violet radiation owing to ozone layer depletion ?
- (1) Cartagene protocol
  - (2) Montreal protocol
  - (3) Geneva protocol
  - (4) Antartica Environmental protocol
- 05.** The tissue bearing dead cells is ?
- (1) Collenchyma
  - (2) Parenchyma
  - (3) Xylem
  - (4) Phellogen
- 06.** Sub-cellular components are separated by means of ?
- (1) Chromatography
  - (2) Autoradiography
  - (3) Electrophoresis
  - (4) Differential and density gradient centrifugation
- 07.** Which these is a vertebrate animal ?
- (1) Prawn
  - (2) Snake
  - (3) Mosquito
  - (4) Octopus
- 08.** Which of these is not a  $C_4$  plant ?
- (1) Maize
  - (2) Rice
  - (3) Sorghum
  - (4) Sugarcane
- 09.** Cell theory was first formulated by ?
- (1) Schleiden and Schwann
  - (2) Rudolf Vrichow
  - (3) A.V. Leeuwenhock
  - (4) Ruth Sagar

10. Apple is a ?  
(1) True fruit (2) False fruit  
(3) Vegetable (4) Parthenocarpic fruit
11. According to Prof. Schumpeter which is not true :  
(1) Invention is the discovery of the new technique  
(2) Innovation is the practical application of an invention in production for the market  
(3) Innovation is the commercialization of an invention  
(4) Innovation and invention both are one and the same thing
12. Economic development and technological advancements are :  
(1) Linearly correlated (2) Negatively correlated  
(3) Positively correlated (4) Uncorrelated
13. The expansion path of production theory is analogous in consumption theory to the :  
(1) Price consumption curve (2) Income consumption curve  
(3) Engel curve (4) Budget constraint line
14. The elasticity of technical substitution is measured by :  
(1) The slope of the isoquant  
(2) The change in the slope of the isoquant  
(3) The ratio of factor inputs  
(4) None of the above
15. The amount of factors used, the quantities of product produced and technique of production adopted by the producer implies :  
(1) Factors of production (2) Consumer's behaviour  
(3) Scale of production (4) All the above

16. The elasticity of substitution for Cobb Douglas Production function is equal to :
- (1) 1                      (2) 0                      (3) 2                      (4)  $\infty$
17. The elasticity of substitution for CES Production function varies between :
- (1) 0 to 1                      (2) 0 to infinity  
(3) -1 to infinity                      (4) 1 to infinity
18. Which production function admits both Harrod Neutral and Hicks neutral technical progress ?
- (1) CES                      (2) VES  
(3) Cobb Douglas                      (4) None of the above
19. When the estimated slope coefficient in the simple regression model is zero then ?
- (1)  $R^2 = Y$                       (2)  $0 < R^2 < 1$   
(3)  $R^2 = 0$                       (4)  $R^2 = 1$
20. The fitted regression is given by  $Y = -12 + 0.5X$ . What is the value of the residual at the point  $X = 50$  and  $Y = 70$  ?
- (1) 57                      (2) -57                      (3) 0                      (4) 33
21. If we multiple Y by 1000 and estimate the same regression, this will have no effect on :
- (1) The estimated intercept parameter  
(2) The estimated slope parameter  
(3) The total sum of squares for the regression  
(4)  $R^2$  for the regression

- 22.** If a quantitative variable has 'm' categories, we can introduce :
- (1) Only m-1 dummy variables
  - (2) Only m dummy variables
  - (3) Only m+1 dummy variables
  - (4) Only m+2 dummy variables
- 23.** In case of Durbin Watson test for autocorrelation the value of "d" may vary between :
- (1) 0 and 1
  - (2) 1 and 4
  - (3) 0 and 4
  - (4) 2 and 4
- 24.** The assumption underlying the Tobit model is :
- (1) Chi -square distribution
  - (2) Logistic distrubution
  - (3) F distribution
  - (4) Normal distribution
- 25.** A cartel aims at maximizing :
- (1) Individual profits
  - (2) Industry profits
  - (3) Share of output of members
  - (4) Goodwill of the member
- 26.** Slutsky equation explains the :
- (1) Demand for durable goods
  - (2) Supply of durable goods
  - (3) Split between price, income and substitution effects
  - (4) Demand for rare goods

**27.** Inferior goods have :

- |                            |                            |
|----------------------------|----------------------------|
| (1) Zero income effect     | (2) Positive income effect |
| (3) Negative income effect | (4) Infinite income effect |

**28.** In the equation  $X_1^2 + X^2 \leq 15$ , the following assumption of Linear Programming is violated :

- |                  |                              |
|------------------|------------------------------|
| (1) Additivity   | (2) Linearity                |
| (3) Divisibility | (4) Single value expectation |

**29.** For the testing of consistency and viability of a planning project, which of the prices are used :

- |                        |                  |
|------------------------|------------------|
| (1) Controlled price   | (2) Market price |
| (3) Administered price | (4) Shadow price |

**30.** Targeted agricultural growth during 12<sup>th</sup> Five Year Plan is :

- |                  |                  |
|------------------|------------------|
| (1) 7.5 percent  | (2) 8.0 per cent |
| (3) 4.0 per cent | (4) 5.0 per cent |

**31.** Minimum support price for wheat during 2015-16 was :

- |                      |                      |
|----------------------|----------------------|
| (1) Rs. 1525/quintal | (2) Rs. 1450/quintal |
| (3) Rs. 1650/quintal | (4) Rs. 1575/quintal |



32. Coefficient of correlation is independent of :
- (1) Change of origin only                      (2) Change of scale only  
(3) Change of origin and scale              (4) None of the above
33. The Chairman of CACP is :
- (1) Dr. Ashok Gulati                              (2) Dr. Ramesh Chand  
(3) Dr. P.K. Joshi                                  (4) Dr. V.P. Sharma
34. When two or more successive footnotes refer to the same work which one of the following expression is used ?
- (1) ibid    (2) et.al  
(3) op.cit.    (4) loc.cit.
35. In the process of conducting research "Formulation of Hypothesis" is followed by :
- (1) Statement of objectives                      (2) Analysis of data  
(3) Selection of research                          (4) Collection of data
36. A monopolist should charge lower price in the market where :
- (1) Demand is highly elastic                      (2) Demand is elastic  
(3) Demand is less elastic                          (4) Demand is inelastic

- 37.** In 2014, European Union (EU) banned import of following agricultural product :
- |                      |                  |
|----------------------|------------------|
| (1) Poultry products | (2) Curry leaves |
| (3) Alphonso mango   | (4) Cheese       |
- 38.** Ex Post Facto research means :
- |  |
|--|
| (1) The research is carried out after the incident                           |
| (2) The research is carried out prior to the incident                        |
| (3) The research is carried out along with the happening of an incident      |
| (4) The research is carried out keeping in mind possibilities of an incident |
- 39.** In case of forced sale :
- |  |
|--|
| (1) Marketed surplus is equal to marketable surplus  |
| (2) Marketed surplus is less than marketable surplus |
| (3) Marketed surplus is more than marketable surplus |
| (4) None of the above                                |
- 40.** Concept of MPC is related with :
- |                |                 |
|----------------|-----------------|
| (1) Saving     | (2) Investment  |
| (3) Production | (4) Consumption |

**Short Answer Questions**

**Note:** 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.

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1. Solution for removing the multicolliniarity
2. Revealed preference theory
3. Duesenberry's effect
4. Autonomous and induced investment
5. Speculative demand for money
6. Law of decreasing returns and decreasing return to scale
7. Giffen's Paradox
8. Characteristics of Cobb-Douglas production function
9. Slack variables
10. Optimum feasible solution

Question No.

Page for Short Answer

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Question No.

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## अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर

केवल नीली-काली बाल-प्वाइंट पेन से ही लिखें)

1. प्रश्न पुस्तिका मिलने के 36 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
2. परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
3. उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा। केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
4. अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें।
5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्नपुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्नपुस्तिका पर अनुक्रमांक और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपरिलेखन की अनुमति नहीं है।
7. उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिए आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाढ़ा करना है।
9. प्रत्येक प्रश्न के उत्तर के लिए केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं, तो संबंधित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
11. रफ कार्य के लिए प्रश्न-पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा उत्तर-पुस्तिका के अंतिम पृष्ठ का प्रयोग करें।
12. परीक्षा के उपरान्त केवल ओ एम आर उत्तर-पत्र परीक्षा भवन में जमा कर दें।
13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की, भागी होगा/होगी।