

Post Graduate School Indian Agricultural Research Institute, New Delhi

Examination for Admission to Ph.D. Programme 2011-2012

Discipline

: Agricultural Extension

Discipline Code: 04

Roll No.

Please Note:

- (i) This question paper contains 13 pages. Please check whether all the pages are printed in this set. Report discrepancy, if any, immediately to the invigilator.
- (ii) There shall be NEGATIVE marking for WRONG answers in the Multiple Choice type questions (No. 1 to 130) which carry one mark each. For every wrong answer 0.25 mark will be deducted.

PART - I (General Agriculture)

Multiple choice questions (No. 1 to 30). Choose the correct answer (a, b, c or d) and enter your choice in the circle (by shading with a pencil) on the OMR - answer sheet as per the instructions given on the answer sheet.

- 1. Which of the following crops have been approved for commercial cultivation in India?
- a) Bt cotton and Bt brinjal
- b) Bt cotton and Golden Rice
- c) Bt maize and Bt cotton
- d) Bt cotton only
- 2. This year (2010-11) the expected food grain production in India is
- a) 212 million tonnes
- b) 220 million tonnes
- c) 235 million tonnes
- d) 250 million tonnes
- 3. The genome of which of the following crops is still not completely sequenced?
- a) Rice
- b) Soybean
- c) Sorghum
- d) Wheat
- According to the Approach Paper to the 12th
 Five Year Plan, the basic objective of the
 12th Plan is
- a) Inclusive growth
- b) Sustainable growth
- c) Faster, more inclusive and sustainable growth
- d) Inclusive and sustainable growth

- To address the problems of sustainable and holistic development of rainfed areas, including appropriate farming and livelihood system approaches, the Government of India has set up the
- a) National Rainfed Area Authority
- National Watershed Development Project for Rainfed Areas
- c) National Mission on Rainfed Areas
- d) Command Area Development and Water Management Authority
- 6. Which of the following sub-schemes are not covered under the Rashtriya Krishi Vikas Yojana?
- Extending the Green Revolution to eastern India
- Development of 60,000 pulses and oilseeds villages in identified watersheds
- c) National Mission on Saffron
- d) National Mission on Bamboo
- The minimum support price for the common variety of paddy announced by the Government of India for the year 2010-11 was
- a) ₹1030
- b) ₹1000
- c) ₹980
- d) ₹950
- According to the Human Development Report 2010 of the United Nations, India's rank in terms of the human development index is
- a)- 119
- b) 134
- c) 169
- d) 182

- 9. Which of the following does not apply to SRI method of paddy cultivation?
- a) Reduced water application
- b) Reduced plant density
- c) Increased application of chemical fertilizers
- d) Reduced age of seedlings
- 10. Which organic acid, often used as a preservative, occurs naturally in cranberries, prunes, cinnamon and cloves?
- a) Citric acid
- b) Benzoic acid
- c) Tartaric acid
- d) Lactic acid
- 11. Cotton belongs to the family
- a) Cruciferae
- b) Anacardiaceae
- c) Malvaceae
- d) Solanaceae
- 12. Photoperiodism is
- a) Bending of shoot towards source of light
- b) Effect of light/dark durations on physiological processes
- Movement of chloroplast in cell in response to light
- d) Effect of light on chlorophyll synthesis
- 13. Ergot disease is caused by which pathogen on which host?
- a) Claviceps purpurea on rye
- b) Puccinia recondita on wheat
- c) Drechlera sorokiniana on wheat
- d) Albugo candida on mustard
- 14. Rocks are the chief sources of parent materials over which soils are developed. Granite, an important rock, is classified as
- a) Igneous rock
- b) Metamorphic rock
- c) Sedimentary rock
- d) Hybrid rock
- 15. Which one of the following is a Kharif crop?
- a) Pearl millet
- b) Lentil
- c) Mustard
- d) Wheat
- The coefficient of variation (C.V.) is calculated by the formula
- a) (Mean/S.D.) × 100
- b) (S.D./Mean) × 100
- c) S.D./Mean
- d) Mean/S.D.

- 17. Which of the following is commonly referred to as muriate of potash?
- a) Potassium nitrate
- b) Potassium chloride
- c) Potassium sulphate
- d) Potassium silicate
- Inbred lines that have same genetic constitution but differ only at one locus are called
- a) Multi lines
- b) Monohybrid
- c) Isogenic lines
- d) Pure lines
- 19. For applying 100 kg of nitrogen, how much urea would one use?
- a) 45 kg
- b) 111 kg
- c) 222 kg
- d) 333 kg
- 20. The devastating impact of plant disease on human suffering and survival was first realized by epidemic of
- a) Brown spot of rice in Bengal
- b) Late blight of potato in USA
- c) Late blight of potato in Europe
- d) Rust of wheat in India
- 21. The species of rice (*Oryza*) other than *O. sativa* that is cultivated is
- a) O. rufipugon
- b) O. longisteminata
- c) O. glaberrima
- d) O. nivara
- 22. The enzyme responsible for the fixation of CO₂ in mesophyll cells of C-4 plants is
- a) Malic enzyme
- b) Phosphoenol pyruvate carboxylase
- c) Phosphoenol pyruvate carboxykinase
- d) RuBP carboxylase
- 23. Which one of the following is a 'Vertisol'?
- a) Black cotton soil
- b) Red sandy loam soil
- c) Sandy loam sodic soil
- d) Submontane (Tarai) soil
- 24. What is the most visible physical characteristic of cells in metaphase?
- a) Elongated chromosomes
- b) Nucleus visible but chromosomes not
- c) Fragile double stranded loose chromosomes
- d) Condensed paired chromosomes on the cell plate

- 25. All weather phenomena like rain, fog and mist occur in
- a) Troposphere
- b) Mesosphere
- c) lonosphere
- d) Ozonosphere
- 26. Which of the following elements is common to all proteins and nucleic acids?
- a) Sulphur
- b) Magnesium
- c) Nitrogen
- d) Phosphorous
- 27. Silt has intermediate characteristics between
- a) Sand and loam
- b) Clay and loam
- c) Loam and gravel
- d) Sand and clay
- 28. Certified seed is produced from
- a) Nucleus seed
- b) Breeder seed
- c) Foundation seed
- d) Truthful seed
- 29. Seedless banana is an
- a) Autotriploid
- b) Autotetraploid
- c) Allotriploid
- d) Allotetraploid
- 30. Which one of the following is used to test the goodness-of-fit of a distribution?
- a) Normal test
- b) t-test
- c) Chi-square test
- d) F-test

PART – II (Subject Paper)

Multiple choice questions (No. 31 to 130). Choose the correct answer (a, b, c or d) and enter your choice in the circle (by shading with a pencil) on the OMR answer sheet as per the instructions given on the answer sheet.

- 31. Animation rurale approach of rural development was undertaken in
- a) India's arid zone
- b) Francophone countries of Africa
- c) Malaysia's rubber industry
- d) Caico region of Brazil
- 32. "Communication is discriminatory response of an organism to stimulus", has been stated by
- a) Berlo
- b) Stevens
- c) Hovland
- d) Schramm

- 33. Which of the following is regarded as "Siamese twins" of management?
- a) Planning and organising
- o) Organising and controlling
- c) Planning and controlling
- d) Staffing and coordination
- 34. 'Sanskritization' is a
- a) Form of grouping
- b) Form of social mobility
- c) Caste structure
- d) Societal institution
- 35. An attitude developed without sufficient exploration of the facts is
- a) Prejudice
- b) Stereotype
- c) Public opinion
- d) Perception
- 36. Delphi technique was developed by
- a) Olaf Helmer
- b) Boston Consulting group
- c) Edward Deming in Japan
- d) Emerson at Ohio State University
- 37. 'Meta Evaluation' is
- a) Evaluating content
- b) Evaluating the evaluation
- c) Evaluating product
- d) Evaluating process
- 38. 'Pygmalion effect' is known as
- a) Self-fulfilling prophecy
- b) Leadership vacuum theory
- c) Leader member relationship
- d) Motivation effect
- 39. Who first gave the idea of 'folkways'?
- a) Robert Redfield
- b) W.G. Sumner
- c) Levi-Strauss
- d) Ralph Linton
- 40. Which one of the following is non-probability sampling?
- a) Stratified sampling
- b) Cluster sampling
- c) Systematic sampling
- d) Quota sampling
- 41. The term MBO was initially coined by
- a) Edward Weidner
- b) Montgomery
- c) Peter Drucker
- d) F.W. Riggs
- 42. 'Semantic differential' scale has been given by
- a) Thurstone
- b) Likert
- c) Osgood
- l) Chauve

- 43. Systematic variance leans in
- One direction
- Two directions b)
- Three directions
- d) All the directions
- 44. What is indicated by the Common Factor Variance of a scale?
- Reliability
- b) Validity
- c) Complexity
- d) Objectivity
- 45. Rate of adoption of an innovation depends
- Replacement for discontinuation
- b) Attributes of the innovation
- Government policy
- d) Incentive backup
- 46. The author of the book 'Pedagogy of the oppressed' is
- Paulo Freire
- b) Neils Rolling
- C) Robert Chambrs
- d) A.T. Moser
- 47. When universe of content is very small, the best technique for scale construction would
- a) Paired comparison technique
- b) Summated rating technique
- c) Scalogram analysis technique
- d) Scale discrimination technique
- 48. Method of Summated Rating for construction was proposed by
- Thurstone
- b) Edwards
- Likert C)
- d) Miller
- 49. An intervening variable is one
- a) Which is a cause of independent variable
- b) Which is an effect of the independent variable and a cause of dependent variable
- c) Which is the effect of dependent variable
- d) Which has no effect either on independent or dependent variable
- 50. The principle way in which scientific inquiry differs from casual observations is
- Use of intuition
- b) Reliance on observations
- c) Use of control procedures
- d) Use of quantitative variables
- 51. Variables like male-female are
- a) Bivalent variables
- Twin variables b)
- C) Dichotomous variables
- Interdependent variables

- 52. Absolute zero is a property of
- Nominal scale
- b) Ordinal scale
- Ratio scale Ċ)
- Interval scale
- 53. Abstraction of the observed phenomenon, things, or events is known as
- Concept
- b) Theory
- c) Hypothesis
- d) Definition
- 54. In PERT network analysis, the difference between the Earliest Start Time (EST) and the Latest Start Time (LST) along the critical path is
- Positive
- Negative b)
- C) Zero
- Indeterminate
- 55. The most influential diffusion research was of
- Hybrid corn study by Ryan & Gross
- b) Drug diffusion by Coleman
- Consequences of innovation by Sharp c)
- d) Opinion leadership by Rogers & Van Es.
- 56. Compared to the agricultural technologies in the recent past, the rate of adoption has been phenomenal in
- Bt cotton hybrids
- b) Zero tillage
- c) IPM
- d) Drip irrigation
- 57. In the innovation-decision making process. the perceived attributes of an innovation as relative advantage, compatibility, complexity, etc. are especially important at
- a) Persuasion stageb) Decision stage
- Knowledge stage C)
- Confirmation stage
- 58. The tendency to interpret communication messages in terms of the Individual's existing attitudes and beliefs is known as
- Selective perception
- b) Stereotype
- c) Selective empathy
- Dogmatism
- 59. In deductive reasoning
- a) The conclusion is uncertain even if the evidence is true
- b) The conclusion is absolutely certain if the evidence is true
- The conclusion is certain even if the evidence is not true
- The conclusion is not dependent upon the evidence :

- Case study was first employed in social science by
- a) Fredrick Le Play
- b) Herbert Spencer
- c) Goode
- d) Kerlinger
- 61. Which of the following is a sociometric index?
- a) Choice status
- b) Group cohesiveness
- c) Both a) and b)
- d) Choice cluster
- 62. When the measurement expert wants to know the "meaning of the test", he actually inquires the
- a) Content validity of the test
- b) Construct validity of the test
- Criterion-related validity of the test
- d) Face validity of the test
- 63. In Interval scale
- Quantities or amount can be added and subtracted
- b) Intervals can be added and subtracted
- Quantities as well as intervals can be added and subtracted
- d) None of the above is true
- 64. A non-parametric test for two-way analysis of variance
- a) The Friedman test
- b) The Kruskai-Wallis test
- c) Chi-square test
- d) Median test
- 65. The most ubiquitous property of data in nonparametric methods is
- a) Rank order
- b) Continuity
- c) Equal interval
- d) Absolute origin
- 66. Survey technique of successive interviews with same sample is known as
- a) Panel technique
- b) Drop-off technique
- c) Cohort technique
- d) Mixed-mode technique
- 67. To provide the participants with an intensive experience of how they affect each other is the purpose of which training method?
- a) Syndicate method
- b) Laboratory method
- c) Lecture method
- d) Field method

- 68. Name the person associated with studies on classification of extension approaches:
- a) Axinn
- b) Hall
- c) Chamber
- d) Pretty
- 69. Collegial participation refers to
- a) Scientists and farmers collaborate as partners in research process
- Strengthening of farmers' informal research by scientists
- Scientists consulting farmers and developing solutions
- d) Scientists making contractual agreement with farmers for land or services
- 70. The book entitled "The One-Straw Revolution" is authored by
- a) Jules N. Pretty
- b) Vandana Shiva
- c) G.R. Conway
- d) Masanobu Fukuoka
- 71. Farmers' experimentation includes
- a) Curiosity experimentation
- b) Adaptation experimentation
- c) Problem-solving experimentation
- d) All of the above
- 72. Which of the following is not used for tapping indigenous technical knowledge?
- a) Case histories
- b) Critical incident
- c) Preference ranking
- d) Problem census
- 73. Yellow Journalism refers to
- a) Reporting anti-government news
- b) News items related to stock exchange
- Use of lurid features and sensational news lacking credibility for increased circulation
- d) Anti-democratic journalism
- 74. Entrepreneurial behaviour is exhibited by people who
- a) Are high in Need for Achievement
- b) Prefer decisions involving a moderate degree of risk
- Operate under chance with no control over the outcome
- d) Both a) and b)
- 75. Farmers' Field School was designed initially as a way to introduce
-) IPM
- b) NPM
- c) SRI
- d) SWI

- 76. Namma Dhwani is a
- a) Agricultural film
- b) Community radio
- c) Anti-GM protest group
- d) Biofertilizer
- In diffusion of innovations "the strength of weak-ties" was highlighted by
- a) Granovetter
- b) Bowers
- c) Kaplan
- d) Tarde
- 78. The power of a test is defined as
- a) Probability of a type-!! error
- b) 1-(Probability of a type-II error)
- c) 1/(Probability of a type-II error)
- d) 1/(1-Probability of a type-II error)
- 79. Farm magazine "Prasardoot" is published from
- a) ICRISAT
- b) IARI
- c) MANAGE
- d) CRRI
- 80. "Mazdoor Manzil" is associated with
- a) Nilokheri experiment
- b) Etawah project
- c) Marthandam project
- d) Shantiniketan project
- 81. IADP laid emphasis upon
- a) Concentration principle
- b) Equiterian principle
- c) Antodya principle
- d) Farmers' First principle
- 82. Participatory Rural Appraisal (PRA) differs from Rapid Rural Appraisal (RRA) in its
- a) Participation of a team of experts
- b) Participation of people and stakeholders
- c) Participation of extension professionals
- d) Speed of collecting data
- 83. Which of the following is true?
- a) Power and authority rest in position
- b) Power and authority rest in person
- c) Power rests in person and authority in position
- d) Power rests in position and authority in person
- 84. The motivational theory 'Y' of management assumes that in an organization the people in general
- a) Like to work
- b) Do not like to work
- c) Are indifferent to work
- d) Try to avoid difficult work

- 85. According to two-factor theory of motivation, absence of hygiene will lead to
- a) Satisfaction
- b) Dissatisfaction
- c) More satisfaction
- d) Low satisfaction
- 86. An individual's deviation from the mean in standard deviation units is sometimes called
- a) The raw score
- b) Sigma
- c) The percentile rank
- d) The Z score
- 87. A researcher draws a sample by selecting every 10th name in the telephone directory. This is called
- a) Simple random sampling
- b) Stratified sampling
- c) Cluster sampling
- d) Systematic sampling
- 88. Theories of learning can be loosely classified by their relative emphasis on
- a) Motivation and evaluation
- b) Learning and instruction
- c) Behaviour and cognition
- d) Management and objectives
- 89 SONDEO relates to
- a) Farmer First and Last Approach
- b) Sensitivity training
- c) Entrepreneurial orientation
- d) Social disorganisation
- 90. Which of the following variables is least like the other three?
- a) Years of job experience
- b) Salary per month
- c) Expenditure per month.
- d) Marital status
- 91. The Law of Imitation that the more similar an innovation is to those ideas that have already been accepted, the more likely the innovation is to be adopted, was given by
- a) Kaplan
- b) Gabriel Tarde
- c) Morris, C.
- d) Rogers, R.
- 92. Funnel is
- a) A test of emotional quotient
- b) A set of special type of open-end questions directed towards getting information on a single topic
- c) A method of content analysis
- d) A method of case analysis

- 93. "These are all fixed ideas in the mind and we tend to hold them true" this notion is related to
- a) Values
- b) Mores
- c) Taboos
- d) Beliefs
- 94. Who gave a model containing the words "Who says, what, which channel, to whom and what effect"?
- a) Westly and Machean
- b) Shannon and Warren Weover
- c) Harold Hosswell
- d) Schramn
- 95. Which element is not in Berlo's model of communication?
- a) Source
- b) Message
- c) Signal
- d) Receiver
- 96. What are the primary colours used in making prints, leaflets and folders?
- a) Red, yellow, black
- b) Red, yellow, brown
- c) Red, yellow, blue
- d) Red, yellow, green
- 97. Which one of the following is a first major effort of the Indian Council of Agricultural Research (ICAR) to strengthen the regional research capabilities of State Agricultural Universities (SAUs)?
- a) NARP
- b) CART
- c) NATP
- d) NAEP
- 98. Which country launched its first extension program named 'Harvest Program'?
- a) Sri Lanka
- b) China
- c) Japan
- d) Israel
- 99. The collection of data in PRA is done by
- a) Local extension agents
- b) Progressive farmers
- c) Research assistants
- d) A multi-disciplinary team
- 100. Which of the following colour combination is the most readable?
- a) Red on white
- b) Black on yellow
- c) Green on white
- d) Blue on white

- 101. Human eyes move in a particular pattern when one reads any visual. This is known as
- a) Z movement of eyes
- b) U movement of eyes
- c) O movements of eyes
- d) Y movement of eyes
- 102. Concept of fixed stages of social change was given by
- a) Saint Simon
- b) Auguste Comte
- c) Charles Darwin
- d) William F. Ogburn
- 103. Assignment of 'numbers to football players' is an example of
- a) Ordinal measurement
- b) Interval measurement
- c) Nominal measurement
- d) Ratio measurement
- 104. A conjectural statement of relationship between the variables is called
- a) Research objective
- b) Research theme
- c) Research problem
- d) Research hypothesis
- 105. A variable which is the presumed cause of another variable is called
- a) Independent variable
- b) Active variable
- c) Antecedent variable
- d) Intervening variable
- 106. Semantic differential is a technique to measure
- a) Hypothesis
- b) Meaning
- c) Objectivity
- d) Relativity
- 107. coined POSDCORB as an acronym to describe his list of important management functions
- ı) Gulick
- b) Fayol
- c) Parkinson
- d) Peter
- 108. National Food Security Mission (NFSM) aims to increase food grain production of the following crops
- a) Rice, wheat and pulses
- b) Cereals, oilseed and pulses
- c) Wheat, rice and oilseeds
- d) Pulses, oilseeds ad wheat

109	. The sign-object relationship is related with	1 118	Massagona' a suppossful TOT of rise asset
	Denotative meaning	1 114	3. 'Massagona', a successful TOT of rice crop
a)			was implemented in
þ)	Structural meaning	(a)	Philippines
c)	Connotative meaning	b)	Indonesia
d)	Contextual meaning	1 .	
٠,	Concatal meaning	(c)	Kenya
	And the second second	d)	Malaysia
110	. Kinesics is the study of		
a)	Non-verbal communication	110	. What score on Flesch's reading ease scale
b)	Body language	,,,,	
		l	is suitable for adult audience?
c) -	Movement	(a)	50-60
d)	Verbal communication	(d	55-60
		(c)	60-70
111	Managerial grid was given by	1 -	
٠,'		(d)	70-80
a)	Peter Drucker		
b)	Gantt	120	. 'Rosarch' is a tool for
C)	Vilfred Pareto		measurement.
ď)	Blake and Mouton		
٧, ,	Diane and Modifil	a)	Projective
		b)	Aptitude
112	. Hawthorne studies were conduced by	(c)	Intelligence
a)	Elton Mayo	1 '	Achievement
	Elton John	(d)	Achievement
b)		ŀ	
c)	Morgan and King	121	. Texts designed for a wide audience
d)	Aristotle		generally require a fog index of
. ,		ا	
440	Plant formation and the second	(a)	Less than 10
113.	First farm magazine in India was	b)	Less than 12
a)	Kisan World	C)	More than 10
b)	Kheti	d)	More than 12
c)	Kisan Bhai	μ 4)	Wole than 12
-			•
d)	Jai Jawan Jai Kisan Weekly	122.	. "Agree with reason", is the characteristic of
ž.		i	which method of knowing or fixing belief?
114.	The theory of instrumental conditioning was	۱۵۱	
	given by	(a)	Method of tenacity
		b)	a <i>priori</i> method
a)	Robert Bolles	(c)	Method of authority
b)	Godon Vower	(d)	Method of science
c)	David Hoffman	-′	
d)	E.H. Thorndike		
u)	E.O. HOMOIKE	123.	According to theory of
			organizations, persons are motivated
115.	Thematic Apperception Test (TAT) is used		primarily by economic gain and the need for
	to measure		
۵١			security.
a)	Perception	a)	Classical theory
b)	Attitude	b)	Neoclassical theory
c)	Motivation	ç)	Modern theory
d)	Emotion		
۳,		d)	Traditional theory
	· ·		
176.	The word 'penyuluhan' is used for extension	124.	Classical theory developed in three
	in Indonesia and it means		streams: bureaucracy, administrative and
a)	Lighting the pathway		occario. Doreacciacy, administrative and
•			*
b)	Advisory work	a)	Traditional management
c)	Simplifying the message	b)	Scientific management
d)	Stimulating people	c)	
,	· ········· · · · · · · · · · · · · ·		Modern management
447	Can a regard to the new title	d)	Neo-classical management
III.	For a word to be considered as complex, it		
;	should have	125	An alternative 'gang plank' route was
a)	More than 3 syllables	.20,	cuganish by Farel in:
•	More than 3 vowels		suggested by Fayol in principle
b)			of management.
	More than 5 letters	a)	Division of work
d)	Unusual and difficult to pronounce	b)	Scalar chain
•			
	İ	c)	Centralization
	1	d)	Order

126. Gate keeping theory was given by a) Kurt Lewin b) Hymes c) Bruce Westley d) Lazarfield	i) Median test ii) McNemar test	a) Alternative to parametric 't' test b) Two independent groups differ in central tendencies
 127. The first step in innovation process in an organization is a) Matching b) Clarifying c) Restructuring d) Agenda setting 	iii) Kruskal-Wallis test iv) Kolmogorov-Smirnov test v) Mann Whitney U test	c) Significance of change d) One way analysis of variance by ranks e) Test of goodness of fit
128. There is/are hot spots on a page. a) Only one b) Two c) Three d) Four 129. The core of intra-personal communication process is a) Self-realisation b) Self-actualisation c) Self-concept d) Self-respect 130 On August 16, 2007, the Govt. of India approved the with an allocation of ₹25,000 crores for the 11 th Five Year Plan. a) National Horticulture Mission (NHM) b) Rashtriya Kirshi Vikas Yojana (RKVY) c) Kirshi Sharmik Suraksha Yojana d) National Agricultural insurance Scheme	133. Theory i) Cannon-Bard theory ii) Vroom's expectancy theory iii) McClelland's theory iv) Attribution theory v) Balance theory 134. Match the following t i) Venn diagram ii) Gender disaggregated task calendar iii) Seasonal calendar iv) Time line v) Transect walk	a) To trace history of the villageb) To assess contact we village institutions
Matching type questions (No. 131 to 140); all questions carry equal marks. Choose the correct answer (a, b, c, d or e) for	135. Level of measurement i) Nominal ii) Ordinal iii) Interval	Characteristic/Examp a) a > b > c b) Thermometer c) Australians, Indians

each sub-question (i, ii, iii, iv and v) and enter your choice in the circle (by shading with a pencil) on the OMR - answer sheet as per the instructions given on the answer sheet.

ı		Glange
l	iv) Kolmogorov-Smirnov	d) One way analysis of
ļ	test	variance by ranks
١	v) Mann Whitney U test	e) Test of goodness of
Į		fit
١	\vec{r}	•
l	133.	•
I	Theory	Concept
İ	i) Cannon-Bard theory	a) Group formation
l	ii) Vroom's expectancy	b) Social perception
l	theory	a) addisi poji dopilori
l	iii) McClelland's theory	c) Leadership
ĺ	iv) Attribution theory	d) Need for achievement
l	v) Balance theory	e) Emotion
	•	·
l		
ļ	134. Match the following t	
l	i) Venn diagram	a) To trace history of the
	,	village
	ii) Gender disaggregated	b) To assess contact with
l	task calendar	village institutions
ļ	iii) Seasonal calendar	c) To map crop rotation
l	iv) Time line	d) To assess work load e) To document socio
	v) Transect walk	
l	•	physical aspects
l	135.	,
ŀ	Level of measurement	Characteristic/Example
	i) Nominal	a) a > b > c
	ii) Ordinal	b) Thermometer
l	iii) Interval	c) Australians, Indians
	iv) Ratio ¹	d) Percentiles
	v) Statistics of ordinal	e) Natural zero
	scales	
!	136.	•
•		Percentage of population
	Adopter category i) Innovators	Percentage of population a) 16%
	ii) Early adopters	b) 34%
	iii) Early adopters	c) 34%
	iv) Late majority	c) 34% d) 13.5%
	v) Laggards	e) 2.5%
	v) Laggarus	6) 2.070

137.	
	a) A complete system which focuses on structures, tasks and
	routine decisions
ii) MIS	b) A complete system which
	focuses on semi-structure tasks requiring managerial judgment
iii) Synectics	c) Technique to enhance creativity
iv) Tactics	 d) When organization is too large, these are expected to operate
v) SBU	as if they are independent units e) Action plans through which strategies are executed

138.		
	<u>Person</u>	
	Prayag Mehta	
ii)	Udai Pareekh	
iii)	Anil Gupta	
IV	Henry Gantt	

v) Elton Mayo

Area of work

- a) Planning charts
- b) Human relations theory
- c) Organizational development
- d) Publication of Honey Bee
- e) Achievement motivation

139.

100.	
i) Intensive Agriculture Area	a) 1977-78
Programme	
ii) Lab to Land Programme	b) 1960-61
iii) Integrated Rural Development	c) 1979
Programme	• •
iv) Green Revolution	d) 1980
v) Desert Development Programme	e) 1966-67

140.

- i) Operational approach
- ii) Interpersonal A behaviour approach
- iii) Managerial approach
- iv) Management science approach
- v) Group behaviour approach
- a) Looks at management as a purely logical process, expressed in mathematical symbols and relationships
- b) Popularized by Henery Mintzberg
- c) Based on sociology and social psychology
- d) Based on individual psychology
- e) Draws together concepts, principles, techniques and knowledge from other fields and managerial approaches

Short questions (No. 141 to 146); each question carries FIVE marks. Write answers, including computation / mathematical calculations if any, in the space provided for each question on the question paper itself.

141. Discuss the importance and role of ICTs in Extension.

142. Discuss the advantages and limitations of public private partnership in Extension with examples.

Advantages & D. Partnership make the effective and speedy communication between farmers and scientist by using wide retwerk of gold, and specialization of private sector.

DIT provide the soil, seed testing etc. facility at village level and also provide the agri inputs directly out the about of the farmers. I shange she farmers. I shange between sural people and research scientist. Ex. Hoshangabad model of M.P.

DIT increases the strength of the organization by reducing weaknesses.

Limitations: 1) partnership requires more documentation procedure. 2) It depends on the agreement of both parties.

3) 3 pecialization of publishe Sector. 1) Generally, it should be adopted in the areas where, an the resources and failities ore anallable.

143. Describe the techniques for training needs assessment.

144. Discuss the elements and use of logical framework approach in program planning.

145. Describe the process and elements of creativity.

146. Discuss the different approaches in Livelihood Analysis including 'Mandaia' approach.