KAS (P) Examination, 2009 AGRICULTURE [01]

Time Allowed	:	Two	Hours]	-
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Time Allowed: Two Hours J	[Max. Marks : 300
1. Which of the following is a monophagous pest	6. Which of the following is responsible
(a) Rice stem borer	for the pest outbreak
(b) Bihar hairy caterpillar	(a) Polyculture
	(b) Monoculture
(c) Tobacco leaf eating caterpillar	(c) Mixed cropping
(d) Pink boll worm	(d) Diversified farming system
2. Which of the following is parasitoid of	7. Potato is a modified
potato tuber moth	(a) Stem
(a) Trichogramma chilonis	(b) Root
(b) Bracon kirkpatricki	(b) Root
(c) Copidosoma koehleri	(c) Shoot
(d) Epiricani melanoleuca	(d) Branch
3. Control measures should be applied at	
(a) Below ETL	8. For bakery products the wheat variety
(b) Above ETL	should have high percentage of
(c) At ETL	(a) Gluten
(d) None of these	(a) Gitter
Imxs.J (a)	(b) Protein
A pest which causes above 10% loss in yield is declared as	(c) Carbohydrates
(a) Minor pest	(d) Sugar
(b) Major pest	
(c) Sporadic pest	9 Number of annual 1
(d) Endemic pest	Number of agro-ecological zones of India are
5. Type of sprayer generally used in	(a) 14
orchard for spraying	
(a) Knapsack sprayer	(b) 15
(b) Rocking sprayer	(c) 16
(c) Hand compression sprayer	(C) 16
(d) None of these	(d) 17
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- 10. Origin of wheat crop is
 - (a) South Western Asia
 - (b) North Western Asia
 - (c) Asia Central
 - (d) North America
- Growing two or more crops simultaneously during part of the life cycle of each is
 - (a) Row intercropping
 - (b) Relay intercropping
 - (c) Double cropping
 - (d) Sequential cropping
- **12.** Critical stage of wheat at which irrigation is required essentially
 - (a) Flowering stage
 - (b) Crown root initiation
 - (c) Jointing
 - (d) Tillering
- Attraction of water molecules for soil particles is termed as
 - (a) Adhesion
 - (b) Cohesion
 - (c) Surface tension
 - (d) Plasticity
- Fertilizer containing any combination or mixture of straight fertilizer is referred as
 - (a) Complete fertilizer
 - (b) Mixed fertilizer
 - (c) Filler
 - (d) Biofertilizer

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- 15. Application of more nitrogen fertilizers leads to
 - (a) Early flowering
 - (b) Luxuriant growth
 - (c) Delayed maturity
 - (d) Resistance to pests
 - 16. Loose smut of wheat is controlled by
 - (a) Solar heat treatment
 - (b) Brine water
 - (c) Hot water treatment
 - (d) Cold water
 - 17. Black heart of potato is caused due to
 - (a) Zinc deficiency
 - (b) Molybdenum deficiency
 - (c) Oxygen deficiency
 - (d) Nitrogen deficiency
 - **18.** Variety of potato having resistance late blight is
 - (a) Laxmi
 - (b) Kufri Jyoti
 - (c) Arka Sinduri
 - (d) Anamika
 - Root-knot disease of vegetables caused by
 - (a) Pratylenchus spp.
 - (b) Meloidogyne spp.
 - (c) Rotylenchulus spp.
 - (d) Heterodera spp.

- The first epidemic of scab of apple in Kashmir valley was observed in
 - (a) 1975
 - (b) 1978
 - (c) 1973
 - (d) 1980
- 21. In mixed farming crop enterprise is combined with
 - (a) Crop
 - (b) Dairy
 - (c) Tractor
 - (d) None
- Which of the following process relates to Agriculture extension
 - (a) One way
 - (b) Two way
 - (c) Three way
 - (d) Multi way
- 23. Extension is expected to be expressed in which of the following process
 - (a) Complete
 - (b) Continuous
 - (c) Complex
 - (d) Effective
- 24. The size fraction of clay is
 - (a) < 0.002 mm
 - (b) 0.002 0.05 mm
 - (c) 0.05 2.0 mm
 - (d) > 2 mm
- **25.** Number of elements required for plant growth as macronutrients are
 - (a) Ten
 - (b) Nine
 - (c) Seven
 - (d) Six

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- 26. National demonstrations are first line demonstration conducted on the farmers field by
 - (a) Research Scientist
 - (b) Extension Scientist
 - (c) Development Staff
 - (d) Extension Official
- National extension development project was launched in the year
 - (a) 1950.
 - (b) 1952
 - (c) 1951
 - (d) 1953
- 28. A good extension programme should be
 - (a) Flexible
 - (b) Rigid
 - (c) Both of the above
 - (d) None of the above
- **29.** Which of the following is *not* a method of group communication
 - (a) Conference
 - (b) National demonstration
 - (c) Field trips
 - (d) Farm and home visits
- The president of state development committee is
 - (a) Agriculture Minister
 - (b) Governor
 - (c) Chief Minister
 - (d) None of the above

- 31. Most important fruit crop of J & K largely processed for value addition is
 - (a) Grape
 - (b) Apple
 - (c) Pineapple
 - (d) Mango
- 32. Widely grown vegetable in J & K is
 - (a) Cauliflower
 - (b) Brinjal
 - (c) Okra
 - (d) Tomato
- 33. India stands second next to China in production of
 - (a) Fruits
 - (b) Vegetables
 - (c) Plantation crops
 - (d) Spices
- 34. Which one of the following is not a system of farming
 - (a) Mixed farming
 - (b) Co-operative collective farming
 - (c) Co-operative farming
 - (d) Peasant farming
- 35. Production possibility curve represents
 - (a) Input-output relation
 - (b) Product-product relation
 - (c) Input-input relation
 - (d) None of the above

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- 36. Preparing farm budget in advance is
 - (a) Farm planning
 - (b) Farm management
 - (c) None of these
 - (d) Both of these
- 37. Crop farming and milk production is example of
 - (a) Complementary enterprise
 - (b) Supplementary enterprise
 - (c) Competitive enterprise
 - (d) None of these
- 38. Selection and adoption of best package of practices comes under
 - (a) Type of farming
 - (b) Farm management
 - (c) Both of these
 - (d) None of these
- 39. Decision regarding what to produc how to produce and how to equip the farm are known as
 - (a) Buying decisions
 - (b) Production and organizatio decisions
 - (c) Selling decisions
 - (d) Administrative problems decisions
- 40. In long run, all costs are
 - (a) Fixed
 - (b) Variable
 - (c) Complete
 - (d) Short period

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41.	Pulses are the important source of	46. Sulphur limiting amino acids in pulse
	(a) Fats	are
	(b) Proteins	(a) Methionine
((c) Crude Fibres	(b) Tryptophan
((d) Carbohydrates	(c) Both
	The crop rich in protein and equi	The state of the s
	important for oil is (a) Maize	47. Laws of heredity were discovered by Mendel in
((b) Rice	(a) Drosophila
((c) Soyabean	(b) Maize
((d) Safflower	(c) Garden Pea
43. F	Pusa Bold is a variety of	(d) Neurospora
((a) Radish	48. Crossing over takes place during
((b) Cauliflower	(a) Leptotene
((c) Cabbage	(b) Zygotene
((d) Mustard	(c) Pachytene
	Photo and thermo insensitive oil s crop is	eed (d) Diplotene
	(a) Groundnut	49. The term polygenes was first used by
	(b) Mustard	(a) R. A. Fisher (1918)
	(c) Rice	(b) Sewall Wright (1935)
	(4) 6	(c) Mather (1941)
		(d) D. S. Falconer (1960)
	Tuber crops are rich in	50. Jumping gene was first discovered by
	a) Fats	(a) Johannsen (1909)
(l	b) Proteins	(b) Morgan (1933)
	c) Minerals	(c) Barbara Mc Clintock (1950)
(6	d) Carbohydrates	- Danite (a)

- 51. In light reaction
 - (a) ADP is formed
 - (b) CO2 is formed
 - (c) NADPH2 is formed
 - (d) Both ATP & NADPH2 are formed
- 52. First event in photosynthesis is
 - (a) Production of CO2
 - (b) Production of O2
 - (c) Oxidation of chlorophyll
 - (d) Oxidation of sugar
- 53. Glycolysis was discovered by
 - (a) Krebs
 - (b) Kolreuter
 - (c) Embden Embden Meyerhof & Parnas
 - (d) Hooker
- 54. Usually food is translocated
 - (a) In upward direction
 - (b) In downward direction
 - (c) In radial direction
 - (d) Not certain
- Translocation of food theory was given by
 - (a) Dixon
 - (b) Jolly
 - (c) Munch
 - (d) Hooker

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- **56.** Growth is
 - (a) Permanent change in size
 - (b) Increase in weight
 - (c) Increase in volume
 - (d) All of these
- 57. The term auxin was given by
 - (a) Pal
 - (b) Jenson
 - (c) F. W. Went
 - (d) Stark
- Amongst cereal crops J & K grov largely
 - (a) Wheat
 - (b) Rice
 - (c) Maize
 - (d) Sorghum
- The rice variety having highest expopotential is
 - (a) Chinor
 - (b) Hybrid rice
 - (c) Basmati
 - (d) Local
- 60. Legume crops need more amount of
 - (a) Nitrogen
 - (b) Phosphorus
 - (c) Potash
 - (d) Zinc

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- **61.** Physical properties of soil are improved by
 - (a) Adding organic matter
 - (b) Adding fertilizers
 - (c) Giving irrigation
 - (d) Puddling
- Microbial fertilizers are more beneficial in
 - (a) Cereal crops
 - (b) Pulse crops
 - (c) Fibre crops
 - (d) Plantation crops
- 63. Soil fertility can be maintained by
 - (a) Crop rotation
 - (b) Relay cropping
 - (c) Chemical fertilizers
 - (d) Irrigation
- 64. Urea contain
 - (a) 45% Nitrogen
 - (b) 46% Nitrogen
 - (c) 47% Nitrogen
 - (d) 48% Nitrogen
- **65.** Fertilizer which can be used as foliar spray is
 - (a) Ammonium Sulphate
 - (b) Urea
 - (c) Super Phosphate
 - (d) Suphala

- **66.** Effective nodule colour in pulses for higher rhizobium activity is
 - (a) Yellow
 - (b) Pink
 - (c) White
 - (d) Black
- 67. Example of complex Fertilizer is
 - (a) DAP
 - (b) Urea
 - (c) Single Super Phosphate
 - (d) Ammonium Sulphate
- 68. The systematic arrangement of sand, silt and clay particles is known as
 - (a) Soil Structure
 - (b) Soil Texture
 - (c) Soil Compaction
 - (d) Soil Colloid
- **69.** The plants absorb nitrogen in the form of
 - (a) N_2O
 - (b) NO₃
 - (c) NO2
 - (d) None of these
- 70. Cow dung on decomposition in biogas plant releases
 - (a) Ethane
 - (b) Propane
 - (c) Methane
 - (d) Butane

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- 71. In India agriculture accounts to the national Gross Domestic Product (GDP) to the extent of
 - (a) 10%
 - (b) 15%
 - (c) 20%
 - (d) 30%
- 72. Brix reading of sugarcane at maturity is
 - (a) 25-31%
 - (b) 12-13%
 - (c) 18-21%
 - (d) 21-25%
- 73. In cotton when floral parts are not borne directly on a branch, such branches are called
 - (a) Sympodial
 - (b) Monopodial
 - (c) Apodial
 - (d) Unipodial
- 74. Crop rotation is effective in controlling
 - (a) Cynodon
 - (b) Cuscuta
 - (c) Chenopodium
 - (d) Cyperus
- 75. The botanical name of Indian mustard is
 - (a) Eruca sativa
 - (b) Brassica campestris
 - (c) Brassica nigra
 - (d) Brassica juncea

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- 76. Vigna mungo is the scientific name of
 - (a) Red gram
 - (b) Bengal gram
 - (c) Green gram
 - (d) Black gram
- 77. Maximum water requiring crop is
 - (a) Maize
 - (b) Cotton
 - (c) Sugarcane
 - (d) Sorghum
- Sprouting points on potato tuber a called
 - (a) Eyes
 - (b) Buds
 - (c) Suckers
 - (d) None of these
- 79. Nutrient rich rice developed throug biotechnology is
 - (a) Brown rice
 - (b) Golden rice
 - (c) Organic rice
 - (d) Hybrid rice
- 80. The toxic fungal metabolite that ca develop in groundnut seeds, cake an meals are
 - (a) Aflatoxins
 - (b) Gossypol
 - (c) Strigol
 - (d) None of these

- 81. Heterobeltiosis is estimated over the
 - (a) Mid parent
 - (b) Better Parent
 - (c) Popular variety
 - (d) Popular hybrid
- Gene-for-gene hypothesis was proposed by
 - (a) Nelson (1973)
 - (b) Flor (1956)
 - (c) Vander Plank (1963)
 - (d) Robinson (1971)
- 83. Vertical resistance is known as
 - (a) Major gene resistance
 - (b) Race specific resistance
 - (c) Oligogenic
 - (d) All of the above
- 84. Wheat stem sawfly has non-preference for
 - (a) Small leaves
 - (b) Thick leaves
 - (c) Solid stem
 - (d) All of the above
- 85. In cotton jassids have non-preference for
 - (a) Smoothness of leaves
 - (b) Frego bracts
 - (c) Hairiness of leaves
 - (d) Okra leaves

- **86.** In rice resistance to stem borer is associated with
 - (a) High tannins in stem
 - (b) High silica content in shoot
 - (c) Waxiness of leaves
 - (d) High aspartic acid in leaves
- **87.** Which is the commercial multiplication method of strawberry
 - (a) Budding
 - (b) Suckers
 - (c) Runner
 - (d) Grafting
- **88.** Disease and insect resistance is governed by
 - (a) Oligogenes
 - (b) Polygenes
 - (c) Plasma gene
 - (d) All of the above
- 89. In India parasitic weed of Sorghum is
 - (a) Cuscuta spp
 - (b) Striga spp
 - (c) Orobanche spp
 - (d) None of the above
- **90.** Ability of plants to maintain a favourable internal water balance under moisture stress is known as
 - (a) Drought escape
 - (b) Drought tolerance
 - (c) Drought avoidance
 - (d) Drought hardening

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- 91. Pyrimidine bases include
 - (a) A and G
 - (b) G and C
 - (c) A and T
 - (d) T, C and U
- 92. The one gene one enzyme hypothesis was proposed by
 - (a) Beadle and Ephrussi (1937)
 - (b) Beadle and Tatum (1941)
 - (c) Benzer (1955)
 - (d) Crick (1966)
- 93. The term mutation was coined by
 - (a) de Vries (1900)
 - (b) Morgan (1910)
 - (c) Muller (1927)
 - (d) Stadler (1928)
- 94. A unit of mutation in a gene is known as
 - (a) Hot Spot
 - (b) Cistron
 - (c) Muton
 - (d) Recon
- 95. The ratio of additive variance to phenotypic variance is referred as
 - (a) Broad sense heritability
 - (b) Narrow sense heritability
 - (c) Coheritability

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(d) Combining ability

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- **96.** The term heterosis was coined by
 - (a) East (1908)
 - (b) Deven Port (1908)
 - (c) Shull (1914)
 - (d) Jones (1917)
- **97.** Concept of plant ideotype developed by
 - (a) Donald (1968)
 - (b) Adams (1982)
 - (c) Jennigs (1964)
 - (d) None of the above
- 98. Central Rice Research Institute located at
 - (a) Hyderabad
 - (b) Cuttak
 - (c) Karnal
 - (d) Simla
- Central Agricultural University located at
 - (a) Bangalore
 - (b) Chandigarh
 - (c) Imphal
 - (d) Jorhat
- 100. A homogeneous population includes
 - (a) Pure line
 - (b) An inbred line
 - (c) F_1 between two pure line
 - (d) All of these

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101. Cutting, grafting, layering, separation 106. Minimum daily requirement of and division are method of vegetable per head is (a) 100g (a) Vegetative propagation (b) 300g (b) Sexual propagation (c) 184g (c) Both (a) and (b) (d) 384g (d) None of these 107. Which of the following fruit contains 102. Potato tubers grow as higher Vitamin 'C' (a) Underground stolon (a) Apple (b) Underground runner (b) Ber (c) Underground suckers (d) Root (c) Papaya (d) Aonla 103. Banana is propogated by means of Suckers which arise from 108. Which of the following fruit is richest in (a) Underground rhizome Vitamin 'A' (b) Underground runner (a) Mango (b) Strawberry (c) Underground suckers (c) Apple (d) Roots (d) Banana 104. Which of the following places in India 109. Which of the following fruit crop is produce superior quality of mandarin commercially propogated by tissue oranges culture (a) Sikkim (a) Banana (b) Coorg (b) Mango (c) J&K (c) Apple (d) Nagpur region (d) Papaya 105. Late blight of potato is caused by 110. Flat pan nozzle is recommended for the spray in (a) Fusarium solani (a) Orchard crops (b) Rhizoctania solani (b) Plantation crops (c) Phytopthora infestans (c) Vegetable crops (d) Alternaria solani (d) Injurious weeds

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- 111. Plant tissue water potential is measured with the help of
 - (a) Porometer
 - (b) Psychrometer
 - (c) Lysimeter
 - (d) None of the above
- 112. Norin 10 is the source of dwarfing gene in
 - (a) Rice
 - (b) Barley
 - (c) Wheat
 - (d) Maize
- 113. National pest of chick pea is
 - (a) Mylabris
 - (b) Helicoverpa
 - (c) Spodoptera
 - (d) Parthenium
- 114. Source of high lysine content in maize is
 - (a) Opaque 2
 - (b) Floury 2
 - (c) Opaque 7
 - (d) All of the above
- 115. Erucic acid is found in
 - (a) Soyabean
 - (b) Safflower
 - (c) Mustard
 - (d) Lathyrus

- 116. Lathyrus sativus variety with low Neurotoxin is
 - (a) Pusa 6
 - (b) Pusa 8
 - (c) Pusa 24
 - (d) Pusa 12
- 117. Cultivation of crop regrowth on the same field in a year is referred as
 - (a) Double cropping
 - (b) Ratoon cropping
 - (c) Mixed intercropping
 - (d) None of the above
- 118. Multiple cropping system helps in
 - (a) Stabilizing crop production
 - (b) Best use of land resources
 - (c) Control of pest and diseases
 - (d) All of the above
- 119. Breeder seed is the progeny of
 - (a) Foundation seed
- (b) Nucleus seed
 - (c) Registered seed
 - (d) Certified seed
- 120. Which of the following fruit is called berry
 - (a) Tomato
 - (b) Brinjal
 - (c) Bittergourd
 - (d) Banana