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Q.1 An effective method to prevent nematode infestation when it is not yet present in the area?

1. Quarantine
2. Heat treatment
3. Crop rotation
4. Mulching

Q.2 Which fertilizer is mainly manufactured in India?

1. Ammonium Phosphate
2. Single Super Phosphate
3. Urea
4. None

Q.3 Total Stem Parasite Weed of onion is?

1. Orabanche cernua
2. Striga lutea
3. Cuscuta chinensis
4. None

Q.4 Sunflower and buckwheat are examples of?

1. Green Legume manure
2. Green leaf legume manure
3. Green leaf non-Legume manure
4. Green Non-legume manure

Q.5 Which of the following is required for a long term sustainable agricultural extension system?

1. World bank funding
2. Plot projects
3. Donor funding
4. Public funding

Q.6 A farmer finds that when using 2 given input resources to obtain a given amount of product, any decrease in the amount of one input unit leads to increased use of other input unit. Which of the following options best describe the input resources?

1. Perfect Substitutes
2. Substitutes

3. Perfect Complements
4. Complements

Q.7 Main Institute for Agriculture Research & Education in India is?

1. NABARD
2. GBPUAT
3. ICAR
4. IARI

Q.8 The 15% more trees could be accommodated in the____?

1. Square System
2. Hexagonal System
3. Contour System
4. None

Q.9 With Reference the principle of economics as applied to agriculture, when marginal product increase, average product____?

1. Increase
2. Decrease
3. Remain Constant
4. Fixed

Q.10 Which mouth-part in the insect is initially used suck the liquids and break down the food into subgroups?

1. Mandibulate
2. Haustellate
3. Sponging
4. Chewing

Q.11 ICRISAT is Located at?

1. Hyderabad
2. New Delhi
3. Kolkata
4. Mumbai

Q.12 Biggest Fertilizer Cooperative in India is?

1. KRIBHCO

2. Dayal Group
3. IFFCO
4. None

Q.13 Which crop has a harmful effect on the increase of RH?

1. Sunflower
2. Maize
3. Sugarcane
4. Sorghum

Q.14 Which of the following options indicate the use of a cash flow budget ?

1. identify the possibility of investing in new technology
2. Petty cash that can be used for personal expenses
3. Calculate Business Equity
4. Decide the cost of selling the business prospective buyers

Q.15 Which of the following is a seasonal pest?

1. Rice Stem Borer
2. Case worm
3. Red hairy Caterpillar
4. Chilli Thrips

Q.16 Which of the following is Microeconomics concerned with?

1. Income
2. Employment
3. Consumer Behavior
4. Policy formulation

Q.17 Which one of the following is called an inductive method in the economic investigation?

1. Analytical
2. Abstract
3. A priori
4. Empirical

Q.18 Which method is used for Protoplast Culture?

1. Hanging Drop Culture

2. Plasma Clot
3. Rill Method
4. Grid Method

Q.19 Which of the following family does the weed Grass belongs to?

1. Poaceae
2. Cyperaceae
3. Crotalaria verrucosa
4. Indigofera viscosa

Q.20 ___ will help in observing the availability of cash in the business throughout the year?

1. Petty cash
2. Annual Income-Expenditure statement
3. Annual turnover
4. Cash flow statement

Q.21 The soil in which the pores are interconnected and irregular in size and shape is?

1. Tubular
2. Vesicular
3. Spongy
4. Cellular

Q.22 Consider the planting distance of the Sapota crop is 8 x 8 (meters). Calculate the number of trees per hectare by using the square system?

1. 139
2. 118
3. 156
4. 80

Q.23 The law which expresses itself while masking the other expression completely when two alleles are brought together in F1 hybrid?

1. Law of segregation
2. hybrid cross
3. Law of purity
4. Law of dominance

Q.24 Which type of method is used for generating and storing the energy by burning the wood or garbage in the absence of oxygen?

1. Anaerobic digestion
2. Landfil gas
3. Pyrolysis
4. Gasifcation

Q.25 _____ is the apex body in India for research and education pertaining to Agriculture?

1. Agricultural Support and Services Project
2. Indian Council of Agricultural Research
3. State Agricultural Universities
4. Department of Agricultural Extensions

Q.26 Production of coffee powder from coffee seeds is an example of?

1. Time Utility
2. Form utility
3. Place utility
4. Possession utility

Q.27 The condition where the plant is unable to produce a zygote with its own pollen is called as?

1. Genetic incompatibility
2. Impotence from degenerated or abortive pistil or ovule
3. Protogyny
4. Dichogamy

Q.28 _____ is called as the light-sensitive part of ommatidium?

1. Pigment cells
2. Semper cells
3. Rhabdom
4. Cystaine cone

Q.29 Which one of the following is an example of restorative crops?

1. Brinjal
2. Legumes
3. Ginger

4. **Sunflower**

Q.30 Which of the following assets, the insurance cannot be covered?

1. **Machines**
2. **Animal Husbandry projects**
3. **Crops to some extent**
4. **Manpower**

Q.31 Which of the following is not a parasite?

1. **Fungi**
2. **Nematode**
3. **Protozoa**
4. **Arthropods**

Q.32 Which one of the following is an example of concentrated organic manure?

1. **Farm yard Manure**
2. **Green Manure**
3. **Oil cake**
4. **Compost**

Q.33 Which of the following plants bear true flowers with stamens, pistils or both with seed containing an embryo?

1. **Spermatophyta**
2. **Gymnospermae**
3. **Angiospermae**
4. **Monocotyledonae**

Q.34 Name the winter annual weed from the following?

1. **Commelina benghalensis**
2. **Boerhavia erecta**
3. **Chenopodium album**
4. **Aternanthera echinata**

Q.35 Which can help a producer in determining how much of a product is required the produced?

1. **Factor-Product Relationship**
2. **Law of Increasing Returns**

3. Factor-Factor Relationship
4. Law of Constant Returns

Q.36 Which one of the size reducer equipment accepts feed particles less than 6mm to get the output of definite size and shape?

1. Crushers
2. Grinders
3. Ultra fine grinder
4. Ultra grinder

Q.37 Will help an agri- business owner to decide on the cost of selling his business to prospective buyers?

1. Turnover
2. Assets
3. Equity
4. Liabilities

Q.38 What is the liquid used in cryopreservation techniques?

1. Ozone
2. Liquid chlorine
3. Liquid nitrogen
4. Sodium chloride

Q.39 The earthworm that is considered as surface dwellers live near the soil surface is called as?

1. endogeic
2. epigeic
3. anecic
4. monogeic

Q.40 In _____ Ti plasmid is responsible for virulence?

1. region D
2. region C
3. region B
4. region A

Q.41 Which two different species belonging to the same genus produces?

1. *Gossypium hirsutum* x *Gossypium arboreum*

2. **Triticum aestivum x triticum durum**
3. **Lycopersicon esculentum x pimpinellifolium**
4. **Lycopersicon hirsutum x lycopersicon esculentum**

Q.42 Which survey technique is easy and accurate to prepare survey plans on a small scale?

1. **Plane Table Survey**
2. **Chain survey**
3. **Compass survey**
4. **Leveling**

Q.43 Which of the following is the source of agro-industries organic waste?

1. **Crop residues**
2. **Piggery**
3. **Press mud**
4. **Market waste**

Q.44 Which one of the following is a micro nutrient in the soil?

1. **Nitrogen**
2. **Iron**
3. **Phosphorus**
4. **Calcium**

Q.45 Family of Jute is?

1. **Graminae**
2. **Compositae**
3. **Tiliaceae**
4. **None**

Q.46 Body & wings covered by Overlapping Scales found in Order?

1. **Lepidoptera**
2. **Coleoptera**
3. **Diptera**
4. **Hymenoptera**

Q.47 Under Micro-Economics study of?

1. **Price Theory**

2. Farm Theory
3. Market Management
4. None

Q.48 Concept of Crystallized labor given by?

1. Marshall
2. Keynes
3. Mill
4. Karl Marx

Q.49 National Income generated by Agriculture is calculated by using?

1. Income Method
2. Output Method
3. Expenditure Method
4. None

Q.50 Plant food manufactured by the process of photosynthesis in the presence of a nutrient in chlorophyll is?

1. Ca
2. Mg
3. Iron
4. Boron

Q.51 During germination radical and plumule develop from?

1. Embryo
2. Endosperm
3. Hilum
4. Seed coat

Q.52 In Our Country Word 'Apex' Means Which Type of Institute?

1. National Level
2. State Level
3. District Level
4. Village Level

Q.53 Seed work board is required for?

1. Viability test of seed

2. Germination test of seed
3. Purity test of seed
4. Blending of seed

Q.54 The use of tensiometer is confined up to metric potential of?

1. 0.8 bar
2. 0.6 bar
3. 0.4 bar
4. 0.2 bar

Q.55 Organic carbon is a measure of?

1. Available N in soil
2. Available P in soil
3. Available K in soil
4. Available Mg in soil

Q.56 _____ of different organisms to the environmental rhythms of light and darkness is called?

1. Topography
2. Phototaxis
3. Photoperiodism
4. vernalization

Q.57 Which of the following not belong to Post harvest handling of seed crop?

1. Seed Selection
2. Threshing
3. Drying
4. Grading

Q.58 Best method to handle nematode Infestation into new area is?

1. Heat Treatment
2. Flooding
3. Chemical Control
4. Grading

Q.59 Which one is non PCR based molecular marker?

1. RAPD

2. SSR
3. RFLP
4. ALFP

Q.60 Who write the book 'I Too Had a Dream'?

1. MS Swaminathan
2. Arun Jeitely
3. APJ Abdul Kalam
4. Verghese Kurien

Q.61 Which of the following gas present in the biogas has composition value 0-1%?

1. CO₂
2. N₂
3. H₂
4. O₂

Q.62 Seed Treatment with chemical?

1. Plant Selection
2. Nutrients Management
3. Genetic Improvement
4. None of these

Q.63 Term Mitosis is coined by?

1. E Purkenje
2. W Flemming
3. Hook
4. None

Q.64 Which one of the following is not the principles of Farm Finance?

1. Character
2. Capacity
3. Capital
4. Calibre

Q.65 Which one of the following Material is widely used for coating in iron & steel pipes to avoid corrosion?

1. Tar & Cement Moltar

2. **Bitumen & Asphite**
3. **Enamels & Resins**
4. **Paints & Resins**

Q.66 Which one of the following is used in organic farming to prevent weed germination & growth?

1. **Cow pea**
2. **Chick pea**
3. **Linseed**
4. **Mulching**

Q.67 _____ helps in deciding the allocation of scarce resources among crop and livestock enterprises for maximum profit?

1. **Factor-Product Relationship**
2. **Factor-Factor Relationship**
3. **Product Product relationship**
4. **Product-Factor Relationship**

Q.68 From the following which does not belong to the methods of soil management practices?

1. **Clean cultivation**
2. **Mowing**
3. **Clean culture with cover crops**
4. **Sod**

Q.69 Which of the following is not the right reason for fluctuation in prices?

1. **Lack of storage**
2. **Lack of transportation**
3. **Lack of communication facilities**
4. **Demand and supply factors**

Q.70 Plant parasitic nematodes feed on the of the Plant_____?

1. **Leaves**
2. **Stem**
3. **Fruits**
4. **Roots**

Q.71 What happened when an excess amount of Nitrogen Fertilizer is Introduced in to Soil Ecosystem?

1. Soil Decay
2. Soil Acidification
3. Soil Residue
4. Microbial Activity

Q.72 Which of the following program was launched in India to introduce reform in public sector Extension System in Late 90s?

1. NARS
2. Green Revolution
3. T & V
4. ATMA

Q.73 Somatic embryos generate plants called as?

1. Mutant
2. Clone
3. Zygote
4. Embling

Q.74 What does FYM stands for?

1. Farm Yard Manure
2. Farm Yeast Manure
3. Fertilizer Yeast Manure
4. None

Q.75 Which measure should be implemented to prevent increasing pest population reaching to ETL?

1. General Equilibrium Position
2. ETL
3. EIL
4. Damage Boundary

Q.76 Which statement is true regarding the exchangeable acidity in the soil chemistry?

1. an exchangeable acidity is derived from exchangeable Na^{3+} cations
2. exchangeable acidity is derived from exchangeable Ca^{3+} cations
3. exchangeable acidity is derived from exchangeable Al^{3+} cations
4. exchangeable acidity is derived from exchangeable Al^{3+} anions

Q.77 ___ is the nematode that causes the blackhead disease in banana crop?

1. **Pratylenchus coffee**
2. **Heterodera oryzicola**
3. **Radopholus similis**
4. **Helicotylenchus multincinctus**

Q.78 PDM 11 is a variety of?

1. **Urd**
2. **Arhar**
3. **Moong**
4. **Lobia**

Q.79 The tillage that is done immediately after crop harvesting to remove the weeds and to restore soil structure is?

1. **Strip**
2. **Sub-soil**
3. **Fallow**
4. **Stubble**

Q.80 The value of elasticity of demand in perfectly inelastic demand is?

1. **One**
2. **Less than unity**
3. **Infinity**
4. **Zero**

Q.81 Who is appointed as the chairperson of the ATMA Governing Board?

1. **Agriculture minister**
2. **District Magistrate**
3. **Elected member from the heads of line departments**
4. **Agriculture expert appointed by the Prime Minister**

Q.82 Which one of the geologic formation types is not used for obtaining heating or electricity generation?

1. **Ge Pressurized**
2. **Cold dry Rock**
3. **Magma**

4. **Hydrothermal**

Q.83 What details would the front page of the livestock record contain?

1. **Summary of annual production from each livestock**
2. **Summary of changes in livestock numbers**
3. **Total number of livestock**
4. **Livestock classification and number of livestock in each**

Q.84 Which of the following antibiotics component in corn leaves affects European corn borer?

1. **DIMBO**
2. **Gopsypol**
3. **Mite**
4. **Aphids**

Q.85 Which enzymes are produced when mushroom Protrusile degrades part of lignin present in Coir Pith?

1. **Cellulose and lactose**
2. **Amylase and lactose**
3. **Cellulose and Amylase**
4. **Lactose and Sucrose**

Q.86 5 input factors have been identified which affect the production of a crop - A, B, C, D and E. Out of this, increases by a constant factor every time. Which law of return does this indicate?

1. **Law of Upward Re-turns**
2. **Law of Stable Returns**
3. **Law of Increasing Returns**
4. **Law of Constant Returns**

Q.87 Which kind of river intake is useful when the water level is static?

1. **Floating intake**
2. **Cross-Weir intake**
3. **Piled Crob intake**
4. **Side-Weir intake**

Q.88 Which of the following component of a Farm Pond Is useful for letting out the excess water from the pond?

1. Storage Area
2. Earthen Dam
3. Mechanical Spillway
4. Emergency spillway

Q.89 Ramu, a farmer, is interested in an investment fund which is made available for agricultural production from resources outside the farm sector. Suggest Ramu to select the right?

1. Credit
2. Agriculture Credit
3. Agriculture Finance
4. Hopkin et al

Q.90 Fungi in the Panama plants resulted in higher aminoacids in their root system and acted as a potential biocontrol agent for the burrowing nematode. The inoculation of the?

1. *Pasteurna penetrans*
2. *Pochonia chlamydospora*
3. *Paeciomyces Macnus*
4. *Mbuscuar Mycohizal*

Q.91 Which one of the transports cannot be stored used for the renewable energy source?

1. Non-Electric vehicle
2. Clean vehicle
3. Green vehicle
4. PHEV

Q.92 The number of possible phenotype in di-allelic genes is?

1. 2
2. 6
3. 5
4. 3

Q.93 Which of the following correctly defines the “Rot Dynamic Pumps”

1. Pumping head increases. the rate of pumping decreases
2. Pumping head increases. the rate of pumping increases.
3. Pumping head decreases. the rate of pumping decreases

4. Pumping head decreases. the rate of pumping increases

Q.94 Which of the following can be considered the rubbish data that need not be kept?

1. Outward correspondences made with suppliers
2. Information about a supplier who has an active website
3. Technical information cut from a journal
4. Correspondence with Bank

Q.95 Weathering process in nutrients management capacities influence the availability?

1. plant nutrients
2. soil fertilizers
3. water conservation
4. basic chemical materials

Q.96 If a consumer purchases various quantities of goods or services due to the price change of related goods is called?

1. Income demand
2. Surplus demand
3. Cross demand
4. Price demand

Q.97 Which of the following plants possess a woody stem with scales but mainly reproduce from seeds and bulbs?

1. Bulbous Perennials
2. Corm Perennials
3. Creeping Perennials
4. Edaphic Plants

Q.98 An aquatic dragonfly that undergoes the incomplete metamorphosis has six legs, a head with compound eyes and antennae, and a_____?

1. small abdomen
2. large abdomen
3. hands
4. thighs

Q.99 Which one of the statements is correct regarding the energy calculation using Rittinger?

1. energy used for size reduction is directly proportional to the change in length

2. energy used for size reduction is inversely proportional to the change in length
3. energy used for size reduction is inversely proportional to the change in Surface Area
4. energy used for size reduction is proportional to the change in Surface Area

Q.100 Which of the following loan type will be disbursed farmers pay wages?

1. Investment Credit
2. Repayment Credit
3. Marketing Credit
4. Production Credit

Q.101 From the following select the incorrect statement regarding the clonal selection in plant breeding?

1. New genotypes can be obtained using this method
2. Stability in the progeny of clones for various generations
3. Can be implemented for both the introduced and the local varieties
4. Kufri safe potato variety is one of its achievements

Q.102 From the following statements, select the appropriate answer regarding the pre-tarsus in the insect leg?

1. Ungues is the lobe between the claws
2. Empodium is the pair of claws
3. Arolium consists of the large bristle in between the claws
4. Pulvili is called the pair of adhesive pads

Q.103 Which variety of Filiform antennae has the appearance of comb-like structure and longer on one side?

1. Pectinate
2. Serrate
3. Clavate
4. Setaceous

Q.104 Which of the Following Disease is not caused by Polluted Water & Unsanitary conditions?

1. Malaria
2. Fluorosis
3. Cholera
4. Hepatitis

Q.105 What is the Purpose of Instrument Tintometer?

1. **Measure the temperature in the water**
2. **Measure the color in the water**
3. **Measure the Odour in the water**
4. **Measure the Turbidity in Water**

Q.106 Syngamy results in formation of which zygote?

1. **Diploid**
2. **Haploid**
3. **Monoploid**
4. **Tetraploid**

Q.107 Which chromosome model was proposed by Du Praw on the basis of observation made on Human Chromosome?

1. **Nucleosome Solenoid**
2. **Folded Fiber**
3. **Molecular**
4. **None**

Q.108 Which of the following is not a type of manure collecting Method?

1. **use cattle shed with kaccha floor**
2. **Dry Earth System**
3. **Loose box System**
4. **Use cattle shed with Permeable Flore for collecting Urine**

Q.109 Income effect is stronger than substitution effect for?

1. **Inferior Goods**
2. **Giffen Goods**
3. **Normal Goods**
4. **None**

Q.110 When total product remains constant, the marginal Product will be?

1. **Zero**
2. **Positive**
3. **Constant**
4. **None**

Q.111 Chemical formula of Gypsum is?

1. CaCO_3
2. $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
3. CaPO_4
4. CaHPO_4