

IGKV CET



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SET-D

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PG - COMMON ENTRANCE TEST-2021

FACULTY OF AGRICULTURE

Time : 2:00 Hours (02:00 pm to 04:00 pm)

Max Marks : 200

Date of Examination

:

29/08/2021

Instructions for examinees PG-CET-2021

1. The sealed question paper should be opened at 2.00 pm, only after filling the OMR sheet. Examinees must ensure that no page is damaged or missing in question booklet and it contains 200 questions. If there is any discrepancy, it should be immediately brought into the knowledge of the invigilator.
2. Use BLACK ball point pen only. Use of pencil is strictly prohibited. Answers marked with pencils will not be evaluated.
3. Each question carries one mark and there will be no negative marking.
4. Examinees are not permitted to bring any book, loose paper or other notes, programmable calculators, mobiles, pagers, digital diary, blue tooth device or any other electronic equipment etc. with them in the examination hall.
5. There will be no replacement of OMR sheet in later stage in any case; therefore examinees must be very careful before they make entries on OMR sheet.
6. Examinees should fill all the columns and darken the circles correctly on the left hand side of the OMR, the details of which are presented in the admit card.
7. It shall be the sole responsibility of the examinees to correctly and completely fill the desired information by writing and darkening circles appropriately on OMR sheet, failing which the OMR sheet shall not be evaluated by the system. In such case, there is no claim of the examinee for considering his/her OMR sheet for evaluation and will be excluded in the CET Merit List.
8. Cutting/overwriting/use of correcting fluid is not permitted. Questions marked more than once, shall not be evaluated and in such cases zero marks will be awarded.
9. Examinee will neither fold/wrinkle the OMR answer sheet nor make any stray marks on the OMR sheet, and also should not give other information on the OMR sheet which may establish his/her identity and zero marks will be awarded in the exam.
10. Examinees will not be allowed to leave the examination hall before completion of examination.
11. The examinees will tear out the carbonless copy of OMR and submit the original OMR to the invigilator at the end of the examination.
12. Any examinee found using unfair means will be expelled from the examination hall and will not be eligible for admission.

Benefits of Implementing HACCP/ ISO 2000

- (a) A preventive approach to food safety (b) Reduce the need for and cost of end product testing (c) Can help identify process improvements and reduce customer complaints (d) All of these

According to CODEX standards, which of the following food item is hypersensitive?

- (a) Cereals (b) Nuts (c) Milk products (d) All of these

Dairy farming generates times more employment potential than crop farming.

- (a) 2 (b) 3 (c) 4 (d) 5

India rank first in milk production, accounting for percent of world production.

- (a) 16.5 (b) 17.5 (c) 18.5 (d) 19.5

Selenium, a trace element, is associated with

- (a) Vitamin A (b) Vitamin D (c) Vitamin E (d) Vitamin K

On an average, the dairy animal should be given days of dry period.

- (a) 30 (b) 60 (c) 100 (d) 150

Which one from protein cover of virus

- (a) Capsid (b) Envelop (c) Virion (d) Viroid

Antibiotics are mostly prepared from

- (a) Fungi (b) Actinomyces (c) Virus (d) All of these

Epitopes are present in

- (a) Bacterial cells (b) Fungii cells (c) both (d) None of these

1) CIFE is located at

- (a) Kochi (b) Bhubaneshwar (c) Lucknow (d) Mumbai

1 Micro organism *Thiobacillus* involved in transformation of

- (a) Carbon (b) Sulphur (c) Phosphorous (d) Boron

2 The enzyme nitrogenase is found in

- (a) Protozoa (b) Cyanobacteria (c) Greenalgae (d) Bacteriophages

3 The advantage of plants in mycorrhizal association is

- (a) Food (b) Protection (c) Increased mineral absorption (d) All of these

4 Which of the following is true about structure of Gram positive cell wall?

- (a) Is composed of thick peptidoglycan layer (b) Periplasmic space is absent (c) Include significant amount of teichoic and lipoteichoic acids (d) All of these

5 Khaira disease of Paddy is due to the deficiency of

- (a) Zinc deficiency (b) Phanerogames (c) Boron deficiency (d) Cuscuta

- 16 Fungus producing conidia either in Pycnidia or Acervuli belong to
 (a) Hypomycetidae (b) Coelomycetidae (c) Blastomycetidae (d) None of these
- 17 The pathogen responsible for charcoal rot of soybean is
 (a) *Ascochyta rabiei* (b) *Macrophomina phaseolina* (c) *Rhizoctonia solani* (d) *Penicillium chrysogenum*
- 18 The sclerotia of ergot disease yield an alkaloid 'Ergotin' which when assimilated in the blood of man or cattle affects the
 (a) Muscular system (b) Respiratory system (c) Nervous system (d) None of the these
- 19 *Phytophthora* belongs to the family
 (a) Peronosclerosporaceae (b) Pythiaceae (c) Peronosporaceae (d) Albuginaceae
- 20 The teliospore of coffee leaf rust pathogen is
 (a) Turnip shaped (b) Bean shaped (c) Sickle shaped (d) dumbbell shaped
- 21 The computerized disease assessment training programme is
 (a) DISTRAIN (b) LOPAT (c) DAS-ELISA (d) EPIDEM
- 22 Phytoplasmas contain
 (a) RNA only (b) DNA only (c) RNA+ DNA (d) RNA or DNA
- 23 The most significant reason why fungi are not in the kingdom Plantae is that fungi
 (a) are chemoorganotrophic heterotrophs (b) are procaryotes (c) have unicellular and multi-cellular forms (d) are eucaryotes
- 24 Stylet-borne viruses are
 (a) Non persistent (b) Circulative (c) Persistent (d) Propagative
- 25 Water molds belong to which division?
 (a) Ascomycota (b) Basidiomycota (c) Chytridiomycota (d) Oomycota
- 26 Partial stem parasite
 (a) *Cuscuta* spp (b) *Orobancha* (c) *Striga* (d) Mistletoes
- 27 Sudden and complete wilting in cotton is due to
 (a) Root rot by *Rhizoctonia solani* (b) Root rot by *Rhizoctonia bataticola* (c) Both (d) Vascular wilt
- 28 Loose smut of wheat can be controlled by
 (a) Spray of fungicide on the crop (b) Seed treatment (c) Soil treatment (d) Crop rotation
- 29 Black heart is a physiological disorder of
 (a) Tomato (b) Chilli (c) Potato (d) Cabbage

- 10 The most important symptom of wilt of cotton (caused by *Fusarium oxysporum fsp vasinfectum*) is
- (a) Necrosis (b) Yellowing of tissues (c) Discolouration of tissues and plugging of vessels by hyphae (d) All of these
- 11 The best way to control the disease spread of smut of sugarcane is to
- (a) Remove the smutted whips from the field (b) Discourage the practice of rationing (c) Avoid planting of setts from smutted canes (d) All of these
- 12 Rogose symptoms is caused by
- (a) Patato virus X (b) Patato virus Y (c) Both (d) None of these
- 13 The most accurate formula used for estimation of volume of logs is.....
- (a) Hoppus rule (b) Smailian's formula (c) Huber's formula (d) Newton's formula
- 14 As per the National Forest Policy, the forest cover in the country should be
- (a) 23 % of total geographical area (b) 30% of the total geographical area (c) 35% of the total geographical area (d) 33 % of the total geographical area
- 15 Montreal protocol was signed in the year
- (a) 1987 (b) 1994 (c) 1988 (d) 1992
- 16 Globally quantity of freshwater available on earth surface is about
- (a) 3.0% (b) 2.5% (c) 3.5% (d) 2.0%
- 17 $C_{19}H_{25}O_6$ is
- (a) GA_1 (b) GA_2 (c) GA_3 (d) GA_5
- 18 Root pressure can be measured by
- (a) Manometer (b) Porometer (c) Barometer (d) Auxanometer
- 19 Which of the following is reducing sugar
- (a) Glucose (b) Dihydroxyacetone (c) Erythulose (d) None of these
- 20 The percentage of total calories obtained from carbohydrates should be between
- (a) 50-60% (b) 5-10% (c) 30-40% (d) 10-20%
- 21 Which of the following is not a secondary tillage operation?
- (a) Hoeing (b) Harrowing (c) Disking (d) Deep ploughing
- 22 Which one of the following phosphatic fertilizer is ideally suitable for application in acid soil?
- (a) Triple super phosphate (b) Single super phosphate (c) Rock phosphate (d) Diammonium phosphate

- 43 The repetitive cultivation of an ordered succession of crops, (or crops and fallow) on the same land is called
- (a) Relay cropping (b) Cropping (c) Cropping pattern (d) Crop rotation system
- 44 When handpulling of weeds is aided by a fork, sharp blade or tip of sickle, then it is called
- (a) Mechanical weeding (b) Forking (c) Spudding (d) Sickling
- 45 The drainage system having laterals only on one side of the mains is called
- (a) Natural (b) Herringbone (c) Grid iron (d) Double main
- 46 Boron content of irrigation water should be
- (a) < 0.3 ppm (b) < 0.3% (c) < 3 ppm (d) < 3%
- 47 Most critical stages of irrigation in maize crop is
- (a) Knee height stage (b) Tasseling stage (c) Silking stage (d) Cob formation stage
- 48 The ideal growth stage for harvesting *Olitorius* jute for getting good yield of quality fibre is
- (a) Pre-flowering (b) Flowering (c) Early pod formation (d) Late pod formation
- 49 Which of the following bacteria fixes atmospheric N through symbiosis in soybean ?
- (a) *Rhizobium trifolii* (b) *Bradyrhizobium japonicum* (c) *Rhizobium leguminosarum* (d) *Rhizobium meliloti*
- 50 What will be the yield of rice grain in $t\ ha^{-1}$, if average earhead density/ m^2 is 260, filled grains/panicle is 136 and test weight is 20g ?
- (a) 6.10 (b) 5.43 (c) 7.08 (d) 6.66
- 51 Grazing of sorghum green fodder should be discouraged if the hydrocyanic acid (HCN) concentration is
- (a) > 200ppm (b) > 300ppm (c) > 400ppm (d) > 500ppm
- 52 Trench method of sugarcane planting is used in
- (a) North India (b) Western India (c) Coastal areas (d) Waterlogged area
- 53 *Adasali* sugarcane is planted in
- (a) July-August (b) January-February (c) February-March (d) October-November
- 54 Citronella is propagated by
- (a) Suckers (b) Stolen (c) Sett (d) Slips
- 55 The inflorescence of wheat is known as
- (a) Umbel (b) Raceme (c) Panicle (d) Ear
- 56 Growing of field crops in-between two widely spaced rows of fast growing trees is called
- (a) Relay cropping (b) Alley cropping (c) Intercropping (d) Mixed cropping

- 7 Agri-silvi-pasture includes
 (a) Crop + tree + pasture + animal (b) Crop + tree (c) Crop + animal (d) Tree + pasture + animal
- 8 Terrace cultivation is practiced in
 (a) Flood prone coastal areas (b) Dry farming areas (c) Saline tracts (d) Hilly areas
- 9 Finger leaf disease of cotton is due to residual effect of
 (a) Chlorophylliphos (b) 2, 4-D (c) Mancozeb (d) None of these
- 10 Which of these herbicides is used to control weeds in zero tillage?
 (a) Paraquat (b) Pendimethalin (c) Fluchloralin (d) Alachlor
- 11 Which of the following is a non-selective but systemic herbicide?
 (a) Glyphosate (b) Paraquat (c) 2,4-D (d) All of these
- 12 *Scirpus* is an example of weed.
 (a) Submersed weed (b) Emerged weed (c) Marginal weed (d) Floating weeds
- 13 For mungbean the period between days after sowing has been regarded as critical stage for weed control.
 (a) 10 and 30 (b) 5 and 25 (c) 15 and 40 (d) 25 and 45
- 14 The bacteria responsible for nitrogen fixation in soybean is
 (a) *Rhizobium japonicum* (b) *Rhizobium phaseoli* (c) *Rhizobium leguminosarum* (d) *Rhizobium glycicum*
- 15 The ideal moisture content in soybean seed at the time of threshing has been estimated at percent.
 (a) 10-11 (b) 11-12 (c) 13-14 (d) 14-15
- 16 Chikori is associated with
 (a) Oat (b) Lucern (c) Mustard (d) Barseem
- 17 The mustard crop is regarded ready for harvest when its pods turn in colour.
 (a) Greenish-yellow (b) Greenish-black (c) Yellowish-green (d) Yellowish-brown
- 18 The planting of sugarcane by trench method
 (a) Improves germination (b) Reduces lodging (c) Improved tillering (d) Saves seeds and sets
- 19 ICRISAT was established in
 (a) 1969 (b) 1972 (c) 1976 (d) 1981
- 20 The term "contingent cropping" means
 (a) Crops grown to maintain soil fertility (b) Crops grown for protecting weather conditions (c) Crops grown to achieve more soil fertility (d) Crops grown to achieve nutritive production

- 71 Broad bed and furrow system of rainwater management is useful in area having
 (a) Vertisol (b) Alfisol (c) Entisol (d) None of these
- 72 Drought tolerance mechanism which shortened life cycle or growing season of plants to reproduced before the environment becomes dry
 (a) Drought avoidance (b) Drought escape (c) Partial dormancy (d) All of these
- 73 In Agrometeorological Observatory, evaporations data is recorded at
 (a) 7 AM & 2 PM (b) 8:30 AM & 2:30 PM (c) 9 AM & 5 PM (d) 7 AM & 5 PM
- 74 Which of the following favors dew formation?
 (a) Cooler long nights (b) Still air (c) Low temperature (d) All of these
- 75 The pressure system with higher pressure at the centre is called
 (a) Anti cyclone (b) Front (c) Cyclone (d) Depression
- 76 According to WMO, globally recommended index for drought monitoring is.....
 (a) AAI (b) NDVI (c) SPI (d) THI
- 77 Which one is a selfblanching Cauliflower variety?
 (a) Pusa Subhra (b) Pusa Synthetic (c) Pusa hybrid-2 (d) Pusa Himjyoti
- 78 A variety of Curry leaf having pink petiole
 (a) DWD-1 (b) DWD-2 (c) Rajendra Sonia (d) Suwasini
- 79 Bullhead is a physiological disorder of
 (a) Tube Rose (b) Rose (c) Chrysanthemum (d) Marigold
- 80 A Potato variety rich in anti-oxidant, developed by CPRI, Shimla suitable for diabetic patients and aged persons
 (a) Kufri Surya (b) Kufri Jyoti (c) Kufri Chandramukhi (d) Kufri Neelkanth
- 81 In a good shelter belt, the belt height (H) and length (L) ratio should be
 (a) 10:1 (b) 5:3 (c) 2:1 (d) 2:5
- 82 In cast iron, the percentage of carbon varies from
 (a) 1.4 % to 2.4 % (b) 2.4 % to 4.5 % (c) 10 % to 20 % (d) 20 % to 40 %
- 83 Repair and maintenance cost usually vary between% of initial cost of machine per year.
 (a) 5 to 10 (b) 10 to 20 (c) 15 to 30 (d) 12 to 15
- 84 Operation simultaneously utilizing two or more different types of tillage tools or implements to simplify, control or reduce the number of operations over a field is called
 (a) Zero tillage (b) Strip tillage (c) Rotary tillage (d) Combined tillage
- 85 Diameter of the sun, is km.
 (a) 1.39×10^6 (b) 0.39×10^6 (c) 2.39×10^6 (d) 3.39×10^6

- 86 In, biogas plant, the container in which digestion takes place is known as.....
 (a) Digester (b) Fermenter (c) Gas dome (d) Mixing tank
- 87 A specific ratio of carbon to nitrogen must be maintained between
 (a) 10:1 to 20:1 (b) 20:1 to 30:1 (c) 30:1 to 40:1 (d) 40:1 to 50:1
- 88 The capacity of kothar type storage structure is
 (a) 1 to 20 tonnes (b) 9 to 35 tonnes (c) 3.5 to 18 tonnes (d) 1 to 60 tonnes
- 89 A paddy has 20 % MC (w.b.), what will be the MC on dry basis (d.b.) %?
 (a) 20 (b) 30 (c) 25 (d) 35
- 90 In cross flow dryers, the direction of flow of grains and heated air is
 (a) Opposite (b) Parallel (c) Perpendicular (d) Reverse
- 91 In the CLB technique, C denotes
 (a) Crossing over (b) Chiasma (c) Chi loop (d) Crossing over suppression
- 92 In DNA double helix, 1' C of pentose makes linkage at
 (a) 1 N of purine and 9 N of pyrimidine (b) 1 N of pyrimidine and 9 N of purine (c) 1 N of purine and 3 N of pyrimidine (d) 1 N of pyrimidine and 3 N of purine
- 93 Mutation due to a base change that changes a codon for an amino acid to a stop codon is
 (a) Missense (b) Silent (c) Nonsense (d) Frameshift
- 94 Acridine induce mutations by
 (a) Removing bases from DNA (b) Inducing tautomeric shifts (c) Inducing translocation (d) Intercalating into the DNA
- 95 The highly mutable sites within a gene are commonly known as
 (a) Hot spots (b) Green spots (c) Cold spots (d) Round spots
- 96 The National Seed Corporation was initiated in 1961 under the Indian Council of Agricultural Research. It was registered as limited company in public sector on.....
 (a) March 7, 1966 (b) April 7, 1966 (c) March 7, 1963 (d) May 7, 1963
- 97 What is the dose of imidacloprid used (ml/kg of seed) for the seed treatment?
 (a) 2 (b) 1 (c) 1.5 (d) 1.2
- 98 The concept of seed vigour originally given in the year 1911 by
 (a) Isley (b) Moore (c) Johannsen (d) Wright
- 99 The first seed production programme for temperate vegetable started in India at
 (a) Bangalore (b) Jalna (c) Varanasi (d) Quetta
- 100 The protection period of trade secret is
 (a) Indefinite (b) 10-15 years (c) 20-30 years (d) None of these duration

- 101 The Indian law of design is preserved in the
 (a) Designs Act 2001 (b) Designs Act 2000 (c) Designs Act 2005 (d) Designs Act 2010
- 102 The biodiversity agreement has been signed by how many countries?
 (a) 179 (b) 189 (c) 169 (d) 199
- 103 *Triticum durum* is also called as
 (a) Emmer wheat (b) Macaroni wheat (c) Polish wheat (d) Rivet wheat
- 104 The recently released variety DBW 187 was developed by
 (a) IARI, New Delhi (b) PAU, Ludhiana (c) IARI, Indore (d) IIWBR, Karnal
- 105 The organisation associated with improvement of Kabuli type chickpea is
 (a) AVRDC (b) CIMMYT (c) CIAT (d) ICARDA
- 106 Multicarpellary, syncarpous gynoecium and unilocular ovary is the characteristics of
 (a) Leguminosae family (b) Composite family (c) Cruciferae family (d) None of these
- 107 Moitree is an important variety which is used as National Check to compare the yield performance in AICRP trial for
 (a) Mungbean (b) Horse gram (c) Chickpea (d) Lentil
- 108 HSI is calculated for the stress tolerance associated with
 (a) Salinity (b) Heat (c) Alkalinity (d) Submergence
- 109 In India biofortified variety with Fe & Zn content released for wheat is
 (a) WB 2 (b) DBW 39 (c) HD 2733 (d) PBW 550
- 110 The minimum error degrees of freedom for conducting any type of field experiment will be
 (a) 10 (b) 15 (c) 12 (d) 8
- 111 Formula in MS Excel begins with sign.
 (a) = (b) > (c) - (d) %
- 112 DOS has user interface.
 (a) graphical (b) character (c) user friendly (d) all of these
- 113 Technologies that provide access to information through telecommunication medium is
 (a) ICT (b) IT (c) Internet (d) none of these
- 114 In a symmetric or normal distribution
 (a) Mean $\neq$ Median $\neq$ Mode (b) Mean = Median = Mode (c) Mean > Median > Mode (d) Mean < Median < Mode
- 115 Shoe size of most of the people in India is no.7. which measure of central value does it represent?
 (a) Mean (b) Second quartile (c) Eighth decile (d) Mode

- 116 If $b_{yx} = -3/2$, $b_{xy} = -3/2$, then the correlation coefficient r is
 (a) $3/2$ (b) $-3/2$ (c) $9/4$ (d) $-9/4$
- 117 With 90, 35, 25 as TSS, SSR and SST respectively in case of RBD, SSE is
 (a) 50 (b) 40 (c) 30 (d) 20
- 118 Large sample theory is applicable when
 (a) $n > 30$ (b) $n < 30$ (c) $n < 100$ (d) $n < 1000$
- 119 An alpha helix represents
 (a) Primary structure of a protein (b) Secondary structure of a protein (c) Tertiary structure of a protein (d) Aggregation of proteins
- 120 High cytokinin/auxin ratio causes
 (a) differentiation of shoots (b) differentiation of roots (c) differentiation of shoots as well as roots (d) no differentiation at all
- 121 A host may pass through the susceptible stages quickly is called as
 (a) Escape (b) Host evasion (c) Genetic resistance (d) Induced resistance
- 122 OP insecticide commonly used against termite control is
 (a) Ronnel (b) Chlorpyrifos (c) Dichlorvos (d) Phorate
- 123 Which order is exclusively parasitic?
 (a) Diplura (b) Pthiraptera (c) Zoraptera (d) Diptera
- 124 Apocrita and Symphyta are the suborders of
 (a) Hymenoptera (b) Thysanoptera (c) Orthoptera (d) Siphonaptera
- 125 Cantharadin is produced by
 (a) Blister beetle (b) Click beetle (c) Pulse beetle (d) June beetle
- 126 The Tomato Pinworm, *Tuta absoluta* was introduced from country.
 (a) Africa (b) South America (c) Australia (d) Orseoliaoryzae
- 127 *Apis mellifera* originated from
 (a) America (b) Italy (c) India (d) Australia
- 128 Isle of wight disease in honey bees is caused by
 (a) Fungus (b) Mites (c) Virus (d) Bacteria
- 129 Hot is used for artificial breaking of diapause in silkworm.
 (a) CO (b) Methane (c) Sulphur dioxide (d) HCl
- 130 Bald brood condition in the honey bee colony is due to
 (a) *Achroia grisella* (b) *Galleria mellonella* (c) *Merops orientalis* (d) *Vespa* sp
- 131 Welfare definition of economics was given by
 (a) J.M Keynes (b) J.B.Say (c) Smith (d) Marshall

- 132 Price elasticity of demand of food products is generally
 (a) <1 (b) >1 (c) 0 (d) Infinity
- 133 The demand for labour is
 (a) Derived (b) Indirect (c) Both (d) None of these
- 134 Ceteris parabus means
 (a) Income is constant (b) Price is constant (c) Everything remaining constant (d) Taste is constant
- 135 SBI was nationalized during.....
 (a) 1921 (b) 1955 (c) 1934 (d) 1935
- 136 Land mortgage bank was started in India during.....
 (a) 1922 (b) 1921 (c) 1919 (d) 1920
- 137 NCUI is
 (a) National Cooperative Union of India (b) Natural Coir Union of India (c) National Coir Union of India (d) National Commission for Universities in India
- 138 Grading of goods for export was 1st started in
 (a) Sunhemp (b) mustard (c) sunflower (d) mesta
- 139 Headquarter of AGMARK is at
 (a) New delhi (b) Nagpur (c) Pune (d) Banglore
- 140 For small farmers marketed surplus with marketable surplus.
 (a) more (b) less (c) equal (d) Both (a) & (c)
- 141 A good plan must be
 (a) Rigid (b) Rapid (c) Flexible (d) Both a & b
- 142 In project cycle appraisal succeeds
 (a) Formulation (b) conception (c) implementation (d) None of these
- 143 Future value of present money = ...
 (a) $P[1+r]^t$ (b) $P/[1+r]^t$ (c) $P^1/[1+r]^t$ (d) $P^1/[1+r]^t$
- 144 Which of the following is irrational zone of production
 (a) II zone (b) II zone & III zone (c) I zone & II zone (d) I zone & III zone
- 145 The total fixed cost with increase in production.
 (a) increases (b) decreases (c) 1st increases then decreases (d) Remains same
- 146 If $\frac{\Delta_1 Y_1}{\Delta_1 X_1} > \frac{\Delta_2 Y_2}{\Delta_2 X_2} > \dots > \frac{\Delta_n Y_n}{\Delta_n X_n}$, then the relationship results in laws of
 (a) Increasing (b) Decreasing (c) Constant (d) Direct
- 147 An abstract is a precis of
 (a) Report (b) Summary (c) Conclusion (d) Thesis

- 148 A seminar refers to the discussion in a group
 (a) Very small (b) Large (c) Very large (d) Small
- 149 The Latin word "*precism*" which means
 (a) to Cut short (b) to cut on (c) to cut off (d) to cut up
- 150 Paralanguage is the Communication.
 (a) written (b) non-verbal (c) verbal (d) oral
- 151 Induced Entrepreneur takes an entrepreneurial task due to
 (a) Govt. policy (b) his personal (c) self-fulfillment (d) their inborn ability satisfaction
- 152 The Indian Institute of Entrepreneurship (IIE) was established in 1993 with its headquarter at
 (a) Hyderabad (b) Noida (c) Lucknow (d) Guwahati
- 153 The main objective of value chain is
 (a) to transmit the raw material into products (b) to create a competitive advantage by adding value to the product (c) to integrate the all activities (d) to satisfy the customer
- 154 Shadow benchmarking is done
 (a) within the organization (b) cooperatively (c) between divisions and branches (d) against a competitor with secretly
- 155 Sriniketan experiment was started by
 (a) Sri. R. N.Tagore (b) Mr. F.L.Brayne (c) Sri. T. Prakasam (d) Sri.S.K. Dey
- 156 "Mazdoor Manzil" is related to
 (a) C.D. programme (b) Etawah pilot project (c) Firka development Scheme (d) Nilokheri Experiment
- 157 Which is not related to cyber extension?
 (a) Telnet (b) File Transfer Protocol (c) printed newspaper (d) World Wide Web
- 158 Hard news is
 (a) less important news (b) in-depth stories (c) breaking news (d) touching stories
- 159 On increase of sheet flow velocity twice, the transportation power gets increased by.....
 (a) 4 times (b) 16 times (c) 32 times (d) 10 times

- 160 EI₃₀ index method was developed for
 (a) Asia (b) U.S.A. (c) Africa (d) U.K.
- 161 Saucerkraut, a preserve product is prepared from.....
 (a) Capsicum (b) Chilli (c) Cabbage (d) Cauliflower
- 162 Seed rate of early duration Garden Pea per hectare is
 (a) 40-50 kg (b) 100-120 kg (c) 150-200 kg (d) 180-220 kg
- 163 International Registration of roses is located in
 (a) China (b) Japan (c) USA (d) India
- 164 The process of detachment of edible part from mother plant is known as
 (a) Cutting (b) Harvesting (c) Pulling (d) None of these
- 165 When jelmeter shows its reading $\frac{3}{4}$ then how much sugar should be added?
 (a) 500 g (b) 750 g (c) 250 g (d) 1 kg
- 166 'Sinki' and 'Khalpi' are prepared by fermentation of
 (a) Black carrot and cabbage (b) Radish and cabbage (c) Carrot and radish (d) Radish and cucumber
- 167 Which system of training is also known as closed centre system
 (a) Central leader system (b) Modified leader system (c) Espalier system (d) Open centre system
- 168 The pH in soils can be raised by adding
 (a) Sand (b) Lime (c) Sulphur (d) Nitrogen
- 169 Which propagating structure is highly suitable for round the year multiplication of horticultural plants?
 (a) Polyhouse (b) Mist Chamber (c) walking tunnels (d) Net house
- 170 C. B.R.S. is situated at
 (a) Karnataka (b) Tamilnadu (c) Andhra Pradesh (d) Kerala
- 171 Which variety of papaya is suitable for tooty fruity and candy used in Canning industry ?
 (a) Pusa Giant (b) Pink flesh sweet (c) Pusa Delicious (d) CO-5
- 172 Which of the following is a parthenocarpic grape variety?
 (a) Perlette (b) Kali Sahibi (c) Black Corianth (d) Arkahans
- 173 Bael belongs to family
 (a) Sapindaceae (b) Rutaceae (c) Rosaceae (d) Myrtaceae
- 174 Central Coffee Research Institute is located at
 (a) Kottayam (b) Kodaikanal (c) Balehonnur (d) Mysore
- 175 Volatilization loss of nitrogen is minimum when the nitrogenous fertilizer applied is
 (a) Ammonium chloride (b) Urea (c) Ammonium sulphate (d) Ammonium sulphate nitrate

- 176 In DRIS Chart, N/K ratio is 1.27 (it lies in the lower side of the zone of tendency to nutritional imbalance). So, the chart reading will be as
- (a) N (Downward diagonal arrow) P K (b) N (Horizontal arrow) P K (c) N (Downward vertical arrow) P K (d) N P K (Downward vertical arrow)
- 177 "Grass tetany" is associated with the deficiency of
- (a) Magnesium (b) Zinc (c) Nitrogen (d) Potassium
- 178 If Rock Phosphate (RP) and lime are to be applied in an acid soil, the appropriate method should be
- (a) Both are applied simultaneously and ploughed under in sub-soil (b) Lime is first ploughed under in sub-soil and RP is then mixed with surface soil (c) RP should be ploughed under first in sub-soil and lime is then applied in the surface soil (d) Both are applied and mixed in the surface soil
- 179 NADEP composting was developed by.....
- (a) M. S. Swaminathan (b) N. D. Pandharipande (c) C.N.Acharya (d) Sir Albert Howard
- 180 Cohesive forces in clay are more due to
- (a) Lesser surface contacts between soil particles (b) Thicker soil moisture films (c) Increasing moisture content (d) Greater surface contacts between soil particles
- 181 Which among the following type of soil structure(s) may be predominantly available in surface soil?
- (a) prismlike (b) spheroidal (c) platelike (d) platelike and spheroidal
- 182 Which of the following trace elements should be present in adequate amount in fodder crops?
- (a) Selenium (b) Copper (c) Nickel (d) Cobalt
- 183 The most resistant (to weathering) silicate mineral in the earth crust is
- (a) Forsterite (b) Pyroxenes (c) Hornblende (d) Quartz
- 184 Soils containing possess higher Anion Exchange Capacity.
- (a) Kaolinite (b) Montmorillonite (c) Vermiculite (d) Mica
- 185 In which of the following amendments used for reclaiming sodic soil, microbial oxidation is involved ?
- (a) Gypsum (b) Sulphuric acid (c) Pyrite (d) Elemental sulphur
- 186 The sorption of positively charged hydroxy Al-polymers formed in acid soil by clay minerals modifies the surface chemistry in which of the following ways?
- (a) Reduce the CEC (b) Increase the CEC (c) Doesn't affect CEC (d) Shifts ZPC towards a lower value

- 187 The pool of reserve acidity is usually highest in ----- soil
 (a) Sandy soil (b) Clayey soil (c) Loamy sand soil (d) Clayey soil
 rich in organic matter rich in organic matter
- 188 Plasmolysis is associated in
 (a) Acid soil (b) Alkali soil (c) Saline soil (d) Acid sulphate soil
- 189 Bacteria of *Thiobacillus* genus are actively involved in
 (a) Acid soil (b) Saline soil (c) Acid sulphate soil (d) Sodic soil
- 190 Which of the following features matches with Organic agriculture?
 (a) Always have to maintain the rigid guidelines regarding use of inputs irrespective of place cultivation
 (b) Promotes off-farm inputs judiciously
 (c) Advocates for meeting up nutrient requirement of crops mainly through fertilizers support by manure and biofertilizers
 (d) Promotes for use of organic inputs to sustain long-term fertility through enhancing biological diversity considering local resources
- 191 The term "Organic Farming" was first coined by
 (a) Lord Northbourne (b) Rudolf Steiner (c) Masanobu Fukuoka (d) Albert Howard
- 192 Pest control by changing crop spacing including crop rotation, pruning and weeding is a part of method of
 (a) Cultural control (b) Mechanical control (c) Chemical control (d) Biological control
- 193 Azolla is used as biofertilizer as it has
 (a) *Rhizobium* (b) Mycorrhiza (c) Actinomycetes (d) Cyanobacteria
- 194 If a label carries a USDA organic seal how much of the product must be certified organic?
 (a) 100 % (b) 95 % (c) 70 % (d) 50 %
- 195 First winged insect originated in period.
 (a) Devonian (b) Carboniferous (c) Mesozoic (d) None of these
- 196 has two pair of legs per segment.
 (a) Chilopoda (b) Diplopoda (c) Insects (d) Arachnids
- 197 Pseudo-halteres in forewing is found in
 (a) Strepsiptera (b) Diptera (c) Hymenoptera (d) Coccidae
- 198 The compound eyes and Ocelli are innervated by
 (a) Deutocerebrum (b) Protocerebrum (c) Tritocerebrum (d) Sub-oesophageal ganglion
- 199 Alternate wetting and drying in paddy field is done to reduce the
 (a) GLH (b) BPH (c) Gall midge (d) Gundhi Bug

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200 crop is used as a trap crop against *Spodopteralitura*.

(a) Marigold

(b) Castor

(c) Mustard

(d) Canola

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