Term-1 (XII - Agriculture)

Practice Questions

SET-A

Employability skills	
1	**Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence". This is given by-** **A. Helen Keller** **B. Mahatma Gandhi** **C. J.C. Bose** **D. Dr. APJ Abdul Kalam**
2	**Which of the following is the not correct way to build positive attitude?** **A. Learn from failures** **B. Be proactive** **C. Anxiety** **D. Focused towards the goal**
3	**What is stress?** **A. A feeling of being happy.** **B. enthusiasms to practice yoga and meditation** **C. a state of being upset, annoyed and upset.** **D. Being filled with positive thoughts**
4	**What is Paranoid personality disorder?** **A. Disorder having distrust for others.** **B. It is the tendency to attract attention.** **C. Disorder in which person feels that they can influence others.** **D. None of these**
5	**Select the correct emotional and impulsive disorder?** **A. Dependent personality disorder** **B. Schizotypal personality disorder** **C. Histrionic personality disorder** **D. obsessive-compulsive personality disorder**
6	**Mona is helping her sister to overcome a personality disorder. what should you do?** **A. Talk to her sister.** **B. Engage her in hobbies.** **C. Help her build confidence** **D. All of the above**

7	**Which one of these it not the component of a spreadsheet?** **A. Cell** **B. formula bar** **C. Workbook** **D. Ellipse tool**
8	**A _____ is an electronic document used to store data in a systematic way and perform calculations just like an expensive-sheets.** **A. Spreadsheet** **B. Worksheet** **C. Workbook** **D. Name box**
9	**_____ is an arrangement of cells in a vertical manner.** **A. Column** **B. Row** **C. Cell** **D. Worksheet**
10	**_____ is an arrangement of cells in a horizontal manner.** **A. Column** **B. Row** **C. Cell** **D. Worksheet**
11	**What is the correct order 'to edit data in a cell'?** **Press Enter, correct text in formula bar, click the cell you want to edit.** **Correct text in formula bar, press Enter, click the cell you want to edit** **Click the cell you want to edit, press Enter, correct text in formula bar.** **Click the cell you want to edit, correct text in formula bar, press Enter.**
12	**Which is the correct way to save a presentation?** **A. File>save as>type the file name>save** **B. File>open>file name>open** **C. File>template>save as>template** **D. File>close>save>ok**
13	**Which menu option do you use to insert a slide?** **A. Edit** **B. Insert** **C. Slide** **D. Tools**
14	**Which option will you use to the colour of the text?** **A. Font color** **B. Font** **C. Highlight color** **D. Format**

15	**You work at the front desk of a telecom company. A customer approaches you while you are working. The customer has a query regarding a bill. What would you do?** **A Not pay attention to the customer** **B Keep the work aside and help the customer** **C Continue doing your work while talking inattentively to the customer** **D Ask the customer to talk to someone else**
16	**Which of the following can be a barrier to active listening?** **A. Noisy environment** **B. Not maintaining an eye contact with the speaker** **C. Not being attentive** **D. All of the above**
17	**Which of the following is not a stage of active listening?** **A. Receiving** **B. Understanding** **C. Non-responding** **D. Evaluating**
18	**What are the characteristics of an ideal message?** **A. Clear** **B. Concise** **C. Accurate** **D. All of the above**
19	**What is a sentence?** **A. A group of ideas that form a complete paragraph.** **B. A group of words that communicates a complete thought.** **C. A set of rules that we must follow to write correctly.** **D. A set of words that contains basic punctuation marks.**
20	**Which of these sentences is capitalised correctly?** **A. I am Hungry.** **B. Divya and sunil are reading.** **C. The bucket is Full of water.** **D. She lives in Delhi.**

<u>Subject skills</u>

1	**Agriculture crops are grown in one hector it gives 143 employment days per year but horticulture crops are far more ahead and it gives _____ employment days per year.** **A. 870** **B. 120** **C. 700** **D. 670**
2	**God Budha is associated with** **A. Pipal, Banyan (Ficus benghalensis) and Sita Ashoka** **B. Sita Ashok (Saraca indica)**

	C. Apple of paradise /Kalpatharu **D. Pipal (Ficus religiosa)**
3	**Which tree and its part use to cure heart troubles** **A. bark of Arjun trees** **B. Rind of pomegranate** **C. Fruits of neem** **D. Roots of beal**
4	**Which are Fat soluble Vitamins** **A. Vitamin A, D, E and K** **B. Vitamin C** **C. Vitamin B complex** **D. All of above**
5	**Which factors Govern soil productivity** **A. Soil Fertility** **B. Soil Physical condition** **C. Insect-Pest and Disease Attack** **D. All of above**
6	**Soil fertility is the ability of the soil to provide all essential plant nutrients in available forms and in a suitable balance. The capability of soil to produce specified crop yield under well-defined and specified systems of management of inputs and environmental conditions is soil productivity.** **soil productivity will be indicated by** **A. Kg/ha** **B. Tones/ha** **C. Quintals/ha** **D. All of above**
7	**What are the deficiency symptoms of ca deficiency** **A. Poor root growth: Ca deficient roots often turn black and rot.** **B. Failure of terminal buds of shoots and apical tips of roots to develop, causing plant growth to cease.** **C. Seed and fruit are small and shriveled** **D. Both a and b**
8	**What are ultra micronutrients** **A. Nitrogen and phosphorous** **B. Zinc and chlorine** **C. Molybdenum and cobalt** **D. Nickel and potassium**
9	**The toxicity symptom of nitrogen is** **A. Vigorous vegetative growth coupled with dark green colour** **B. appears mainly in the form of micronutrient deficiency mostly for iron, zinc and manganese** **C. magnesium or potassium deficiency** **D. Leaf size will be reduced and overall growth will be stunted**
10	**Interveinal chlorosis that progresses over the entire leaf is the deficiency symptom of** **A. Fe** **B. N**

	C. P **D. ca**
11	**Which of the following nutrients show deficiency symptoms on new leaves?** **A. Fe, Cu, Cl, S, Mn** **B. N, P, K, zn** **C. Ca and B** **D. Ni and Cl**
12	**Plant nutrient participated in structure development that are called as frame work nutrients** **A. N, P and K** **B. C, H and O** **C. Ca and Mg** **D. Fe and Zn**
13	• **It has a major role in the formation of the cell wall membrane and its plasticity, affecting normal cell division by maintaining cell integrity and membrane permeability.** • **It is an activator of several enzyme systems in protein synthesis and carbohydrate transfer.** • **It combines with anions including organic acids, sulfates, and phosphates. It acts as a detoxifying agent by neutralizing organic acids in plants.** **The above statements are for which nutrient** **A. Ca** **B. Mg** **C. S** **D. boron**
14	**Oil cake powder manure apply in soil** **A. One month before** **B. 15 days before sowing** **C. Two months before sowing** **D. At the time of sowing**
15	**Green manuring is growing in the field plants usually belonging to which family?** **A. Poaceae** **B. Malvaceae** **C. Compositae** **D. Leguminoceae**
16	**_____are preparations containing living cells or latent cells of efficient strains of microorganisms that help crop plants for the uptake of nutrients by their interactions in the rhizosphere.** **A. Biofertilizer** **B. Green manures** **C. Vermicompost** **D. Fertilizers**
17	**Azolla-Anabaena grows profusely as a floating plant in the flooded rice fields and can fix _____ in approximately.** **A. 70-80 kg N/ha /year** **B. 40-50 kg N/ha /year** **C. 60-70 kg N/ha /year**

	D. 40-80 kg N/ha /year
18	**Which of the following is incorrect about biofertilizers?** **A. They are cheaper, pollution free and renewable energy sources.** **B. They improve physical properties of soil, soil tilth and soil health in general.** **C. They can complete all the nutrient requirement of plants.** **D. They improve soil fertility and soil productivity.**
19	**Denitrifying bacteria, microorganisms whose action results in the conversion of nitrates in soil to free atmospheric nitrogen, thus depleting soil fertility and reducing agricultural productivity. Which of the following is denitrifying bacteria?** **A. Thiobacillus** **B. Micrococcus** **C. species of Serratia** **D. All of above**
20	**Maintenance or adjustment of soil fertility and supply of plant nutrient to an optimum level for sustaining the desired crop productivity through optimization of benefit from all possible resources of plant nutrients in an integrated manner is known as** **A. Nutient management** **B. Ferility management** **C. Integrated nutrient management** **D. Soil Nutrient improvement**
21	**It is practiced for the application of fertilizers in orchards. In this method, fertilizers are placed close to the plant in bands on one or both sides of the plant.** **A. Hill placement** **B. Pallet application** **C. Row placement** **D. Top dressing**
22	**Pellet application It refers to the placement of nitrogenous fertilizer in the form of pellets 2.5 to 5 cm deep between the rows of crop.** **A. Hill placement** **B. Pallet application** **C. Row placement** **D. Top dressing**
23	**Application through irrigation water** **A. Starter solution** **B. Fertigation** **C. Fertilization** **D. None of above**
24	**Biuret shouldn‘t be more than** **A. 1.5%.** **B. 4.5%** **C. 9%** **D. 18%**
25	**Best earthworm for vermicomposting in Rajasthan is:-** ***A. Eisenia fetida*** ***B. Pheretima posthuman*** ***C. Pheretima enlongata***

	D. *All of these*
26	**Who discover Indian Indore composting method?** **A. L. N. Acharya (1939)** **B. Sir Albert Howard and Wade (1924-26)** **C. Manikam (1967)** **D. Narayan Rao Pandheri Pandey**
27	**fertilizers which are containing two or three primary plant nutrients, known as:-** **A. Mixed manure** **B. Mixed Fertilizer** **C. Compound Manure** **D. Compound Fertilizer**
28	**Which one an organic manure:-** **A. Urea** **B. DAP** **C. SSP** **D. None of these**
29	**Rhizobium, Bacillus For 5-6 members of family needs _____ area in kitchen garden.** **A. 500 m^2** **B. 1000m^2** **C. 250-300 m^2** **D. 150-200m^2**
30	**Rock phosphate is best suitable for the……. soil.** **A. Acidic Soil** **B. Neutral Soil** **C. Alkaline Soil** **D. Saline Soil**
31	**Which fertilizer totally manufactured in India** **A. Muret of Potash** **B. Sulphate of Potash** **C. Di Ammonium Phosphate** **D. a & b**
32	**Which one of them best suitable nitrogenous fertilizer in sub-merged soils:-** **A. Ammonium Sulphate** **B. CAN** **C. Urea** **D. All**
33	**Nitrogenous fertilizers are applied into crops:-** **A. After Sowing** **B. Split doze** **C. at sowing time** **D. None of these**
34	**Urea content ……% N.** **A. 46%** **B. 30%** **C. 14%** **D. 32%**

35	**SSP content ……% P** **A. 32%** **B. 46%** **C. 16%** **D. 48%**
36	**Gypsum Content ……% Ca and ……..% S** **A. 16% and 32%** **B. 23.5% and 29%** **C. 22% and 18%** **D. 44% and 12%**
37	**MOP Content ……..% K.** **A. 34%** **B. 60%** **C. 46%** **D. 19%**
39	**Find the correct statement about soil productivity** **A. It is evaluated by soil testing in laboratory** **B. It is the function of available nutrients of the soil** **C. It is not the inherent property of the soil** **D. It is an index of available nutrient to plants**
40	**Soils on the upper slope are _____than the soils on lower slope because high leaching and erosion on upper slope.** **A. Less fertile** **B. More fertile** **C. Equally fertile** **D. None**
41	**Which of the following is not beneficial plant nutrient** **A. Sodium (Na)** **B. Vanadium (V)** **C. Silicon (Si)** **D. Copper (Cu)**
42	**Oxygen percentage in plant body is** **A. 30%** **B. 18%** **C. 45%** **D. 6%**
43	**Which nutrient will show deficiency in both Old and New Leaves?** **A. N** **B. Zn** **C. Cl** **D. K**
44	**Which nutrient deficiency will show interveinal chlorosis, Wilting & occurs principally on very acid soils, becomes less available with low pH?** **A. Mo** **B. N** **C. Mg**

	D. Ca
45	**Sodium is involved in osmotic (water movement) and ionic balance in plants** **A. K** **B. P** **C. Na** **D. Ca**
46	**Capillary movement of water is complemented by_____.** **A. Stem elongation** **B. Root extension** **C. Leaf orientation** **D. None of these**
47	**Biogeochemical nutrient cycles have led to recognize that ____ is very important.** **A. Balanced fertilization** **B. Over fertilization** **C. Under fertilization** **D. None of these**
48	**Which of the following formulae is correct?** **A. WR = ET +AW + INR** **B. WR = IR + (ER+S)** **C. ET = IR + INR (-S)** **D. IR = WR – (ER + S)**
49	**Sugarcane crop required maximum water at;-** **A. Germination stage** **B. Grand growth stage** **C. Maturity stage** **D. All of these**
50	**VAM belongs to the group of** **A. Bacteria** **B. Fungi** **C. Algae** **D. Actinomycetes**
51	**Which of the following crops are susceptible to potassium chloride application?** **A. Rice and wheat** **B. Sugarcane** **C. Tea and coffee** **D. Tobacco and potato**
52	**Drip irrigation is moist suitable for** **A. Acid soil** **B. Alkaline soil** **C. Saline soil** **D. All the above**
53	**The N fertilizer use efficiency in rice can be increased by using** **A. S coated urea** **B. Urea Super Granules** **C. BGA** **D. Both a & b**

54	**The consumptive use of water is equal to** **A. PET** **B. ET** **C. Evaporation +Transpiration + water used in metabolic activities** **D. None**
55	**Organic farming excludes the application of** **A. Manures** **B. Fertilizers** **C. Irrigation** **D. Bio-fertilizers**
56	**The water content between field capacity and PWP is called** **A. Capillary water** **B. Biological water** **C. Unavailable water** **D. Available water**
57	**Split application of fertilizers is useful under** **A. Sandy soil** **B. Loamy soil** **C. Clayey soil** **D. All Correct choice**
58	**Soil pH is measure of** **A. Active acidity** **B. Potential acidity** **C. Total acidity** **D. All**
59	**The beetle, Zygogramma bicolorata Pallinter, introduced for the control of congress grass, started feeding on** **A. Cauliflower** **B. Mustard** **C. Sunflower** **D. Soybean**
60	**The level at which control measures should be initiated against a pest is called** **A. Economic injury level** **B. Economic threshold level** **C. General equilibrium level** **D. None of these**
61	**This enzyme is involved in the Biological Nitrogen Fixation.** **A. Rhizobium** **B. Azotobacter** **C. Nitrogenase** **D. Nitrosomonas**
62	**Infiltration rate is relatively higher in A** **A. Sandy soil** **B. Clay loam soil** **C. Silty soil** **D. Clayey soil**

63	**An oxidative transformation of NH_4^+ into NO_2^- is mediated by** **A. Nitrobacter** **B. Urease** **C. Nitrosomonas** **D. Nitrogenase**
64	**pH may be defined as** **A. Negative log of OH ion concentration** **B. Log of H ion concentration** **C. Negative log of H ion concentration** **D. Log of OH ion concentration**
65	**Chlorophyll contains** **A. Magnesium** **B. Manganese** **C. Iron** **D. Cobalt**
66	**Soil productivity is basically a** **A. Social concept** **B. Economic concept** **C. Physical concept** **D. Chemical concept**
67	**_____ is one of the phosphate solubilizer species of micro organisms.** **A. Azolla** **B. Pseudomonas** **C. Azotobactor** **D. Azospirillium**
68	**_____ is conversion of soil nitrate into gaseous nitrogen.** **A. Denitrification** **B. Nitrification** **C. Ammonification** **D. None of above**
69	**_____ is symbiotic N-fixer in leguminous crop.** **A. Fungi** **B. Azatobactor** **C. Rhizobium** **D. Azospirillium**
70	**Mahua cake contains _____ alkaloid.** **A. Nimbidin** **B. Ricin** **C. Saponin** **D. None of these**
71	**The application of fertilizer in irrigation water in either open or closed system is known as _____.** **A. Fertigation** **B. drip irrigation** **C. sprinkler irrigation** **D. flood irrigation**

72	**The toxic ingredient present in urea is _____.** **A. Uret** **B. Biuret** **C. Themate** **D. Acid**
73	**Which of the following organism convert ammonia to nitrite ?** **A. Nitrosomonas** **B. Nitrobacter** **C. Azospirillum** **D. Micrococcus**
74	**Which of the following organism convert nitrite to nitrate ?** **A. Nitrobacter** **B. Pseudomonas** **C. Clostridium** **D. Bacillus**
75	**Azolla shows symbiotic association with** **A. Anabaena** **B. Bacillus** **C. Nostoc** **D. Calothrix**
76	**Mycorrhiza are important in uptake of** **A. Phosphorous** **B. Sulfur** **C. Calcium** **D. Nitrogen**
77	**The organic farming was began in** **A. 1930** **B. 1950** **C. 1985** **D. 1960**
78	**Soil fertility is reduced due to** **A. Over irrigation** **B. Continuous cropping** **C. Imbalanced use of fertilizers** **D. Poor drainage**
79	**Which of the following is an organic farming practice that helps maintain soil health ?** **A. Sewage Sludge** **B. Synthetic Fertilizers** **C. Monoculture** **D. Crop Rotation**
80	**Since organic farms can't use synthetic pesticides, how do they control insects** **A. Use cover crops** **B. Use crop rotation** **C. Use beneficial birds and insects to eat the insects that destroy crops and cause disease** **D. All of the above**
81	**Biofertilizer is a**

	A. Mixture of organic matter and microorganism **B. Mixture of inorganic fertilizer and microorganism** **C. Culture having the desired strain of microorganisms** **D. Decomposed compost enriched with mineral solubilising bacteria**
82	**Use of resistant varieties constitutes method of** **A. Genetic control** **B. Biotic control** **C. Self control** **D. Natural control**
83	**Growing of two or more crops simultaneously on the same piece of land is called** **A. Mixed cropping** **B. Mixed farming** **C. Intercropping** **D. Fanning**
84	**How many years must land be treated as organic without the use of harmful prohibited substances to be eligible for organic certification** **A. One** **B. Two** **C. Three** **D. Four**
85	**ICMR recommend how much quantity of fruits should consumed per capita every day for balance diet.** **A. 120g** **B. 300g** **C. 180g** **D. 200g**
86	**Read the following statements** **1) If one crop is cultivated in a year, then soil testing once in a five year is sufficient.** **2) But under intensive cultivation, say 2-3 crops in a year, then sampling should preferably be done every year prior to sowing of the first crop of the given cropping sequence.** **3) If the field is levelled and soil appears to be uniform, only one composite sample if taken properly could be enough for an area of 4-5 ha.** **A. Statement 1,2 and 3 all are correct** **B. Statement 1 is correct 2 and 3 is incorrect** **C. Statement 1 is incorrect 2 and 3 correct** **D. All are incorrect statements**
87	**Suitable crops for treating with Azospirillum culture are** **A. Rice, Sugarcane, Pearmillet, wheat, sorghum** **B. Mustard, sunflower, banana, sugarcane, grapes, papaya, watermelon** **C. All legume exception Rajamma** **D. tomato, chilli, okra, coconut, spices, flower plants**
88	**The basic concept of INM is the maintenance and improvement of soil fertility through integrating various nutrient resources along with fertilizers for sustaining crop productivity on long-term basis. The concept includes key areas like, maintenance/adjustment of soil fertility, optimum plant nutrient supply, sustaining desired level of productivity, optimization**

	of benefits from all possible sources of nutrients and addressing environmental concerns. This may be achieved through combined use of all possible sources of nutrients and their scientific management for optimum growth, yield and quality of different crops and cropping systems. What are the key components of INM? A. **Organic Manures, Biofertilizers** B. **Growing legumes and fertilizers** C. **Both a and b** D. **Pesticides**
89	**_____Refers to a soluble chemical or mineral) drain away from soil, ash, or similar material by the action of percolating liquid, especially rainwater or irrigation water.** **A. Infiltration** **B. Leaching** **C. Percolation** **D. Interflow**
90	**Which is the most suitable method of irrigation for fruit trees?** **A. Check basin method** **B. Furrow method** **C. Border /strip irrigation** **D. Ring method**
91	**What are the reasons of elimination of natural enemies, resurgence of pests, and development of insecticide resistance and out-break of secondary pests?** **A. Introduction of high yielding varieties, expansion in irrigation facilities** **B. Organic farming and using biopesticides** **C. Indiscriminate use of increased rates of agrochemicals such as fertilizers and pesticides in recent years.** **D. Both a and c**
92	**Which one of the following is not correctly paired** **A. Cultural control – Light trap and pheromone trap** **B. Mechanical control- Handpicking, Burning of crop residues** **C. Chemical control – Fungicides, Insecticides** **D. Biological control- Protelian parasites, Predators, Trichogramma sp**
93	**Trapping is popular method to lure insects to bait, light etc. to kill them. Traps usually fail to give adequate crop protection but prove useful to know population build up and are convenient to collect insect samples. Many trap designs have been developed room time to time to suit different insect species. Hopper-dozers were formerly used to collect grasshoppers.** **Read the following statements are find the correct one** **A. Light traps are used to catch nocturnal insects** **B. Pheromone traps are particularly effective against the lepidopterous pests** **C. Sticky traps are boards of yellow color smeared with sticky substance, which trap and kill the flying insects that are attracted to and try to rest on it.** **D. All are correct**
94	**The financial assistance is provided on the basis of project proposals received from States including Maharashtra. Indian Council of Agricultural Research (ICAR) under Network Project on Organic Farming, which lead centre is developing package of practices of**

	different crops and cropping system under organic farming in different agro-ecological regions of the country. **A. Project Directorate for Farming Systems Research Modipuram** **B. Indian Institute of Vegetable Research** **C. Indian Institute of Horticulture Research** **D. National Academy of Agricultural Research Management**
95	**In kitchen garden which type of cultivation practice should be followed** **A. The land should not be left vacant and intensive crop cultivation** **B. Growing crops in one/ two season only** **C. Crop should not be grown according to principles of crop rotation** **D. All of above**
96	**Read the following sentences about radiation treatment** **1. it works without raising temperature of produce, it is known as cold sterilization** **2. In onion and ginger radiation treatment is given for sprout inhibition** **3. It helps in surface pasteurization, sprout inhibition and retardation of senescence process** **A. All the sentences are incorrect** **B. Sentence 1 is correct rest is incorrect** **C. All the sentences are correct and interrelated** **D. Sentence 2 and 3 is correct 1 is incorrect**
97	**Chrysanthemum (standard) For local market:** **A. Fully opened flowers** **B. Flowers shows its colour** **C. half opened flowers** **D. at paint brush stage**
98	**Ethylene-sensitive flowers are pulsed with** **A. HQC-8** **B. Silver thiosulphate (STS)** **C. HQS** **D. citric acid**
99	**Husking paddy, which is sometimes referred to as de-husking or milling is the process of removing the outer husk. Husked paddy is referred to as brown rice, whereas de-husked (or polished) rice is white rice. Brown rice is nutritionally superior to white rice as it contains some of the bran which contains protein and vitamin _____.** **A. B_2** **B. B_{12}** **C. B_6** **D. B_1**
100	**Flaked cereals are partially cooked and can be used as quick-cooking or ready to eat foods. The grains are softened by partially cooking in steam. They are then pressed or rolled into flakes which are dried. The flakes are eaten crisp and should have a moisture content of below 7%.** **Flaked cereals are prepared by** **A. Rice** **B. Maize** **C. Both**

	D. Linseed

Practice questions

SET-B

Employability skills	
1	**The most critical skills in effective communication is** **A. Active listening** **B. Active response** **C. Active interviewing** **D. Active participation**
2	**Which of the following is not a basic part of any speech?** **A. Noun and Pronoun** **B. Adjective** **C. Verb and Adverb** **D. Prepositions**
3	**Which of the following techniques help us overcome fears and take up new challenges?** **A. Motivation** **B. Positive attitude** **C. Both a and b** **D. Communication**
4	**A person's ability to recognize what results are important and the steps needed to be taken to achieve them, can be described by term-** **A. Result Orientation** **B. Self-motivation** **C. Self-awareness** **D. Self-reflection**
5	**An electronic document, which has rows and columns and used to store data in a systematic way for performing calculations is known as** **A. Worksheet** **B. Work book** **C. Spreadsheet** **D. Cell**
6	**Which of the following presentation software is used to make digital presentations?** **A. Notebook** **B. Microsoft-Power point** **C. Google slides** **D. Both b and c**
7	**Which of these sentences is punctuated correctly?** **A. Where are you going.** **B. I have a pen a notebook and a pencil.** **C. I am so happy to see you!** **D. This is my house.**

8	**Which of the following is not a parameter to describe an individual's personality?** **A. Self-confidence** **B. Openness** **C. Neuroticism** **D. Agreeableness**
9	**Identify the subject in the sentence, "The children played football".** **A. The children** **B. Children played** **C. Played** **D. Football**
10	**Identify the object in the sentence, "The children played football."** **A. The children** **B. Children played** **C. Played** **D. Football**
11	**Which of these sentences has/have both indirect and direct objects?** **A. I am working on a presentation.** **B. She bought a blue pen.** **C. The girls played cricket.** **D. He wrote a letter to his sister**
12	**Which of these sentences is/are in passive voice?** **A. They are watching a movie.** **B. The clock was repaired by Raju.** **C. He is sleeping in the room.** **D. My pet dog bit the postman**
13	**The _____ shows the location of the selected cell.** **A. Workbook** **B. Name box** **C. Formula bar** **D. Cell**
14	**Which of the following is not a type of spreadsheet?** **A. Microsoft Excel** **B. libre office calc** **C. google sheets** **D. Microsoft power point**

15	**Which of the following one of the main type of data in excel sheets?** **A. Formula** **B. Cell** **C. Date** **D. Time**
16	**Will you *book* the flight tickets? Identify the part of speech** **A. Adjective** **B. Noun** **C. Adverb** **D. preposition**
17	**A _____ sentences expresses a strong emotions.** **A. Exclamatory** **B. Declarative** **C. Imperative** **D. Interrogative**
18	**A _____ sentence expresses a strong command.** **A. Exclamatory** **B. Declarative** **C. Imperative** **D. Interrogative**
19	**A _____ sentence states a fact.** **A. Exclamatory** **B. Declarative** **C. Imperative** **D. Interrogative**
20	**What will be the passive form of the sentence-*The thief was chased by the cops.*** **A. The cops was being chased by the thief.** **B. The cops was chased by the thief.** **C. The thief was chased by the cops** **D. The thief was being chased by the cops.**
Subject skills	
1	**The branch of agriculture which deals with fruit crops, vegetable crops, ornamental crops, medicinal & aromatic crops, spices & plantation crops and post-harvest management and processing, is known as** **A. Apiculture** **B. Horticulture** **C. Floriculture** **D. Olericulture**

2	**Which of the following crops offers best utilization of waste land?** **A. Karonda** **B. Maize** **C. Custard apple** **D. Both a and c**
3	**Vitamin B_2 is also known as** **A. Riboflavim** **B. Ascorbic acid** **C. Nicotinic acid** **D. Pyridoxine**
4	**Papain, a digestive enzyme is extracted from which of the following crops?** **A. Rose** **B. Cabbage** **C. Papaya** **D. Rice**
5	**How much quantity of the vegetables is recommended by ICMR, New Delhi per capita every day for balance diet?** **A. 300 g/day** **B. 120 g/day** **C. 75 g/day** **D. 500 g/day**
6	**Which of the following vitamins is water soluble?** **A. Vitamin D** **B. Vitamin C** **C. Vitamin B** **D. Both b and c**
7	**Which of the following is a rich source of vitamin C?** **A. Guava** **B. Barbados Cherry** **C. Drumstick leaves** **D. Broccoli**
8	**The capability of soil to produce specified crop yield under well-defined and specified systems of management of inputs and environmental conditions is referred as** **A. Soil elasticity** **B. Soil fertility** **C. Soil productivity** **D. Soil plasticit**
9	**Which of the following is considered as Quasi essential element for plants?** **A. Nitrogen** **B. Nickel** **C. Calcium** **D. Silicon**
10	**Apical Bud Symptoms of the plant is caused by deficiency of which of the following nutrients?** **A. Ca and B** **B. N and K** **C. Cu and Cl**

	D. Mg and Mo
11	**Which of the following nutrient is actively involved in photosynthesis of plants?** **A. N** **B. Mg** **C. S** **D. B**
12	**Queen of cereals is known is** **A. Wheat** **B. Rice** **C. Barley** **D. Maize**
13	**Indian Institute of Vegetable Research (IIVR) Located in** **A. Mysore** **B. Delhi** **C. Coimbatore** **D. Varanasi**
14	**Indian Institute of Pulses Research (IIPR) Located in** **A. Kanpur , UP** **B. Delhi** **C. Lakhnow, UP** **D. Tanjavur, TN**
15	**Central Rice Research Institute (CRRI) Located in** **A. Cuttack, Odisa** **B. Delhi** **C. Lakhnow, UP** **D. Tanjavur, TN**
16	**Per capita daily requirement of carbohydrates is** **A. 600 g per capita** **B. 200-300 g per capita** **C. 400-500 g per capita** **D. 600-700 g per capita**
17	**Which of the following is richest source of vitamin C?** **A. Anola** **B. Barbadose cherry** **C. Coriander leaves** **D. Guava**
18	**Total of _____ elements are essential for growth and full development of plant.** **A. 16** **B. 17** **C. 19** **D. 20**
19	**Micronutrients present in plant** **A. >1 ppm** **B. < 1 ppm** **C. > 1 ppb**

	D. < 1 ppb
20	**Nitrogen is available to plants in which form?** **A. NO^{2-}** **B. NO** **C. NO^{3-}** **D. NO^{3-} & NH^{4+}**
21	**Nutrients that are immobile within the plants** **A. N,P,K** **B. Ca, Mg, S** **C. Zn, Cl, Mo** **D. Ca & B**
22	**Which of the following impart green color to plant and plays important role in synthesis of Auxin?** **A. Sulphur** **B. Calcium** **C. Nitrogen** **D. Phosphorus**
23	**Which of the following nutrient is essential for stomata regulation** **A. Nitrogen** **B. Potassium** **C. Zink** **D. Magnesium**
24	**Die back disease and blossom end rot in tomato observed in deficiency of which nutrient?** **A. Nitrogen** **B. Molybdenum** **C. Calcium** **D. Zinc**
25	**Reclamation disease and excess gumming in citrus occurs in deficiency of which micronutrient** **A. Boron** **B. Molybdenum** **C. Nickel** **D. Copper**
26	**_____is necessary for pollen germination and only non metal elements among nutrients.** **A. Boron** **B. Zinc** **C. Molybdenum** **D. Phosphorous**
27	**Plant remain short and look dark green in color and in extreme deficiency turn brown black in color under the leaf are the deficiency symptom of which nutrient** **A. Nitrogen** **B. Phosphorus** **C. Potassium** **D. Zinc**
28	**Which one of the following is richest source of iron** **A. Mango** **B. Plum**

	C. Amaranths leaves **D. Dry karonda**
29	**Recommended thickness of furrow slice in V - shaped method of soil sampling is** **A. 3-4 cm** **B. 1-2.5 cm** **C. 2.5-3 cm** **D. 3-3.5 cm**
23	**Nitrogen content of FYM, Vermicompost and groundnut oil cakes are** **A. 0.5%, 3.0%, 7.3%** **B. 7.3%, 0.5%, 3.0%** **C. 7.9%, 0.5%, 3.0%** **D. 0.5%,0.9%, 7.9%**
24	**Bio fertilizers suitable for non legume crops** **A. Rhizobium** **B. Azatobacter** **C. Azospirillum** **D. Both (B) and (C).**
25	**Hygroscopic water and Capillary water in soil held at which pressure** **A. -31 to -1000 bars and -1/3 bar** **B. -1/3 bar and -31 to -1000 bars** **C. – 15 bar and -1/3 bar** **D. -1/3 bar and – 15 bar**
26	**Intercropping, growing certified plants are which method of pest control** **A. Cultural method** **B. Mechanical control** **C. Biological control** **D. Chemical control**
27	**At early stage lives as parasite and at maturity behave like predator and completely kills the host is called** **A. Protelian parasites** **B. Parasites** **C. Super parasitism** **D. Hyper parasitism**
28	**Biological control of cottony cushion scale in southern India by introduction of which natural enemies** **A. *Rodolia cardinalis*** **B. *Eriosoma lenigerum*** **C. *Aphelinus mali*** **D. *Trichogramma minutum***
29	**National organic farming research institute (NFORI) is located at** **A. Pusa, new Delhi** **B. Varanasi, UP** **C. Sikkim** **D. Coaimbatore TN.**
30	**Which one of the following is not a concept of Organic farming?**

	A. The soil is a living entity **B. Nature is the best role model for farming** **C. It allows using of synthetic hormones and pesticides** **D. The system does not believe in mining of the soil for its nutrients**
31	**Which of the following is not a component of organic farming** **A. Green manures** **B. Farm Yard Manure** **C. Chemical fertilizer** **D. Bio-fertilizer**
32	**How organic farmers enrich the soil** **A. Fertilizers** **B. Pesticides** **C. Manures and bio-fertilizers** **D. Antibiotics**
34	**Country having more than 30% of worlds organic producers are** **A. USA** **B. China** **C. India** **D. America**
35	**Country with largest area under organic farming** **A. USA** **B. China** **C. India** **D. Australia**
36	**Total cultivable land area under organic farming in India** **A. 11.83 lakh ha** **B. 29.17 lakh ha** **C. 37.8 lakh ha** **D. 42.8 lakh ha**
37	**Under national project on organic farming subsidy is provided with the help of** **A. RBI(Reserve Bank of India)** **B. RRB(Regional Rural Bank)** **C. NABARD(National Bank for Agriculture and Rural Development)** **D. State co-operative banks**
38	**A3P (Accelerated Pulse production program) is a part of** **A. NPOF** **B. RKVY** **C. NFSM** **D. NHM**
39	**National project on organic farming was introduced in the year** **A. 2003** **B. 2002** **C. 2009** **D. 2004**
40	**PKVY stands for** **A. Pradhanmantri Kisan Vikas Yojna**

	B. Paramparagat Krishi Vikas Yojna **C. Pradhanmatri Khet Vikas Yojna** **D. Paramparagat Kheti Vikas Yojna**
41	**The mango variety sutable for growing in kitchen garden is** **A. Dashehri** **B. Chausa** **C. Alphonso** **D. Amrapali**
42	**Which one of the following statement is correct?** **A. Compost pit should prepared at corner of kitchen garden** **B. Tall varieties of fruits should grow in kitchen garden** **C. Leafy vegetables should be grown at borders of kitchen garden** **D. Compost pit should prepared at centre of the kitchen garden**
43	**Nitrate and Nitrite are results of:-** **A. Nitrosomonas, Nitrobacter** **B. Nitrobacter, Nitrosomonas** **C. Bacillus, Pseudomonas** **D. None of above**
44	**Root crops should grow at _____in kitchen garden.** **A. Furrows** **B. Flat beds** **C. Ridges** **D. Around the border**
45	**Who is known as father of food preservation?** **A. Peter Durand** **B. Lavoisier** **C. Spallanzani** **D. Nicholus Appart**
46	**Post harvest treatment, curing is followed for which crops?** **A. Leafy Vegetables** **B. All fruit crops** **C. Root, tuber and bulb crops** **D. For cereals**
47	**Which hormone is known as ripening hormone?** **A. IAA** **B. IBA** **C. Ethylene** **D. Gibbrelline**
48	**What is pulsing?** **A. Treating the flowers with high concentration of sucrose and germicide** **B. Loading the flowers with high concentration of silver nitrate** **C. Dipping the flowers in ethylene solution** **D. Spraying NAA solution**
50	**Ideal size of zero energy cool chamber is** **A. 150 X 160 X 60 cm** **B. 165 X 115 X 67.5cm**

	C. 160 X 110 X 65 cm **D. 165 X 100 X 70 cm**
51	**Paint brush stage is harvesting stage of which flower** **A. Gladiolus** **B. Chrysanthemum** **C. Tuberose** **D. Carnation**
52	**Pre cooling treatment is important for** **A. Removing field heat** **B. Slowing the senescence process** **C. Enhance the shelf life of the commodity** **D. All of above**
53	**_____ is the most common commercial floral preservative.** **A. NAA** **B. IBA** **C. Cytokinin** **D. HQC-8**
54	**Paraboiling is post harvest treatment followed in which cereal crop?** **A. Sorghum** **B. Wheat** **C. Rice** **D. Barley**
55	**Complete the process** **Harvesting -> Threshing-> _____-> Drying-> Storage** **A. Hulling** **B. Milling** **C. Winnowing** **D. Praboiling**
56	**CFTRI (Central Food Technology Research Institute) is located at** **A. Mysore, Karnataka** **B. Bangluru, Karnataka** **C. Delhi** **D. Mumbai , Maharashtra**
57	**Grant in aid provided under scheme for technology upgradation** **A. 25% and 33.3 % of total cost in general and problematic area respectively** **B. 50% and 75% of total cost in general and problematic area respectively** **C. 33.3 % and 25 % of total cost in general and problematic area respectively** **D. 75% and 50 % of total cost in general and problematic area respectively**
58	**IIFPT stands for** **A. Indian Institute of Food Production Technology** **B. Indian Institute of Fruit Processing Technology** **C. Indian Institute of Fruit Production Technology** **D. Indian Institute of Food Processing Technology**
59	**Scheme for Technology up gradation started at which year** **A. 20010** **B. 2020**

	C. 2007 **D. 2000**
60	**For quality assurance and maintain standards of value added and processed food _____ works.** **A. HACCP** **B. ISO** **C. GMP** **D. All of above**
61	**Which one is rich source of fat?** **A. Walnut** **B. Pecannut** **C. Avacado** **D. Cashewnut**
62	**Which one is rich source of Fe?** **A. Karonda** **B. Litchi** **C. Mango** **D. Date palm**
63	**Vegetable is poor source of:-** **A. Vitamin** **B. Carbohydrate** **C. Protein** **D. Fats**
64	**Vit-C found in Barbandes Cherry is:-** **A. 600mg/100g** **B. 1400-1600mg/100g** **C. 299mg/100g** **D. 150mg/100g**
65	**Capacity of nutrient supply to plant is known as?** **A. Soil Productivity** **B. Soil Fertility** **C. a & b Both** **D. Production**
66	**Under which scheme financial assistance is provided for setting up vermi-compost production units @ 50% of the cost subject to a maximum of Rs. 30,000/- per beneficiary, for adoption of organic farming @ Rs.10,000/- per hectare for maximum area of 4 hectare per beneficiary and for organic farming certification @ Rs.5.00 lakh for a group of farmers covering an area of 50 hectares?** **A. National Horticulture Mission** **B. Rashtriya Krishi Vikas Yojna** **C. National Food Security Mission** **D. National Project on Management of Soil Health and Fertility**
67	**Which is parental factor?** **A. Soil Productivity** **B. Soil Fertility** **C. a & b Both** **D. Production**

68	**Beneficial nutrient theory given by:-** **A. Arnon** **B. Satrtut** **C. Nicholas** **D. DeCandoli**
69	**Ni considered as a essential plant nutrient in year:-** **A. 2010** **B. 2089** **C. 1987** **D. 2000**
70	**Yellowing diseases in tea is due to deficiency of:-** **A. Ca** **B. Zn** **C. S** **D. B**
71	**Which plant nutrients deficiency seen on apical bud of plant?** **A. N** **B. Fe** **C. Ca** **D. Mg**
72	**Which one is a secondary plant nutrient?** **A. N** **B. C** **C. Mg** **D. Zn**
73	**Which one is a beneficial plant nutrients?** **A. Na** **B. C** **C. Mg** **D. Zn**
74	**Which nutrients is oxygen carrier?** **A. B** **B. Fe** **C. Ca** **D. Mg**
75	**Crop logging is due to toxicity of:-** **A. N** **B. C** **C. Mg** **D. Zn**
76	**Soil sample depth should be taken for agronomy crops?** **A. 10 cm** **B. 15 cm** **C. 20 cm** **D. 25 cm**
77	**pH meter discover by:-**

	A. SPL Sorensen **B. Arnold** **C. O. Beckman** **D. VV Dokuchaev**
78	**C:N ratio of Indian soil is:-** **A. 10:1** **B. 15:1** **C. 20:1** **D. 25:1**
79	**Soil sample should be dry at temperature?** **A. 15-20^{o}C** **B. 20-25^{o}C** **C. 40-50^{o}C** **D. 100^{o}C**
80	**The equation "ETO = Kp/Epan" is used to estimate Evapotranspiration (ET) in which of the following method?** **A. Blaney and Criddle method** **B. Pan evaporation method** **C. Radiation method** **D. Modified penman method**
81	**Which of the following are the main pillars of organic farming?** **A. Organic threshold standards and Technology packages** **B. Production of foodstuffs of high nutritional quality and sufficient quantity** **C. Maintenance of the long-term fertility of soils** **D. Reduction in use of fossil energy in agricultural practice to a minimum**
82	**Stable system of crop protection, which based on the ecological relations within the crop and the environment, combines several methods of pest control in such a way that the pest is prevented from causing economic injury is known as** **A. Integrated Plant Management** **B. Integrated Pest Management** **C. Natural Biological Control** **D. Crop rotation**
83	**Proper marketing of perishable commodities such as fruit and vegetables often requires proper storage conditions to balance day-to-day fluctuation between harvest and sale or for long term storage. Storage controls shelf life of produce by controlling rate of respiration, transpiration, ripening and biochemical changes all of which are responsible for shelf decomposition/deterioration of produce. The different types of storage such as Traditional Storage, advanced storage, etc have different attributes in minimizing microbial infection and thus add to better storability of produce. From above paragraph, in which of the following storage method, storage atmosphere is achieved by manipulating O_2, CO_2 and N_2?** **A. Cellars Storage** **B. Zero Energy Cool Chamber** **C. Modified Atmospheric Storage** **D. Barns Storage**
84	**In traditional India, before shifting to chemical farming, the agriculture industry was practiced using organic techniques, where the fertilizers and pesticides were obtained from plant and animal**

	products. Organic farming was the backbone of the Indian economy and cows are still worshiped as sacred animals from God. Now days, Govt. of India has started many institutes/schemes such as ICAR, AINPSBB, NHM, NABARD, NPMSH&F, etc. working on organic farming. Which of the following schemes was initiated by ICAR for organic farming? **A. All India Network Project on Soil Biodiversity-Biofertilizers** **B. National Project on Management of Soil Health and Fertility** **C. Nutritional Security through Intensive Millets Promotion Programme** **D. National Horticulture mission**
85	**_____ irrigation system water is spread into the air and is allowed to fall on the ground somewhat resembling like rainfall** **A. Drip** **B. Subsurface drip** **C. Sprinkler** **D. Pulse**
86	**The most advanced and efficient practice of fertilization is _____** **A. Drip fertigation** **B. Row application of fertilizer** **C. Use of coated fertilizer** **D. Use of injector**
87	**Water requirement of rice crop is** **A. 450-650 mm** **B. 500-700 mm** **C. 1200-2200 mm** **D. 900- 2500 mm**
88	**Critical stage of irrigation for gram/chick pea is** **A. Root initiation** **B. Germination** **C. Pre flowering** **D. Seedling**
89	**_____is the total quantity of water applied to the land surface in supplement to the water supplied through rainfall and soil profile to meet the water needs of crops for optimum growth.** **A. Irrigation requirement** **B. Water requirement** **C. Gross irrigation requirement** **D. Net irrigation requirement**
90	**Which indicate water requirement of crop?** **A. CU + application losses + water needed for special operations** **B. IR + ER + S** **C. IR – (ER + S)** **D. Both a and b**
91	**Application of irrigation water to a level or nearly level area completely enclosed by diches. In this method, the entire field is divided into a number of almost leveled plots (compartments) surrounded by levees. Water is admitted from the farmer‘s watercourse to these plots turn by turn.** **The above statement about which irrigation method?**

	A. Furrow method **B. Ring method** **C. Border /strip method** **D. Check basin method**
92	**This method is frequently used to irrigate orchards. Generally, one basin is made for one tree. However, where conditions are favourable, two or more trees can be included in one basin. In this method there is a possibility of infections of diseases.** **The above statement is about which irrigation method?** **A. Furrow method** **B. Ring method** **C. Border /strip method** **D. Check basin method**
93	**An organism that derives its nutritional requirements from another organism, killing it slowly or not killing it at all.** **A. Predator** **B. Host** **C. Parasite** **D. All of above**
94	**Which one of the following is incorrect statement?** **A. Biological control is a long-time self-perpetuating control of the target pest. Unlike insecticides, there is no fear of pest developing resistance.** **B. Biological control doesn‘t provide surety. The projects usually have equal chances of failure or success.** **C. In this method there is no fear of pest resurgence, as normally happens by the application of insecticides.** **D. None of above**
95	**Which chemicals are absorbed by a plant when applied to seeds, soil, or leaves?** **A. Systemic pesticides** **B. Non systemic pesticides** **C. Wettable powders** **D. Organochlorines**
96	**When a parasite develops on another parasite, which is on the host. The parasite that attacks the host is called primary parasite and the one that attacks the primary parasite is called secondary parasite.** **The above statement is of which type parasitism?** **A. Multiple parasitism** **B. Hyperparasitism** **C. Superparasitism** **D. protelian parasites**
97	**Surprisingly simple modifications of a pest's environment or habitat often prove to be effective methods of pest control. As a group, these tactics are usually known as cultural control practices because they frequently involve variations of standard horticultural, silvicultural, or animal husbandry practices.** **The above statement is of which type of pest control?** **A. Mechanical method** **B. Cultural method**

	C. Regulatory method **D. Physical method**
98	**Initiation or aggravation of certain physiological disorders can occur, such as blackheart in potatoes, brown stain on lettuce and brown heart in apples and pears are the harmful effects of which type storage method?** **A. Clamp storage** **B. Sand and coir storage** **C. Controlled atmospheric storage** **D. Hypobaric storage**
99	**Recomonded storage temperature and relative humidity for storing apples are** **A. Temperature -10 -0 ^{0}C, RH-90-95%** **B. Temperature -1-0 ^{0}C, RH-90-95%** **C. Temperature -1-4 ^{0}C, RH-90-95%** **D. Temperature 2-4 ^{0}C , RH-90-95%**
100	**_____are not used at the small scale because of their high cost and maintenance requirements.** **A. Roller mills** **B. Hammer mills** **C. Plate mills** **D. None of above**

Practice Questions

SET-C

Employability skills	
1	**A person was was nagging a lot and very upset with life. He is suffering with_____.** **A. Happiness** **B. Disorder** **C. Stress** **D. Emotions**
2	**Which is one of this is not an example of result-oriented goals.** **A. Student to crack JEE exam.** **B. Athlete to run five miles in a day.** **C. Reach a destination in three hours.** **D. Abolishment of Poverty**
3	**Radha studies in a school. She tends to disregards the set of rules by the school, is irritable and does not like to mix with either with his friends and family.** **A. Paranoid personality disorder** **B. Antisocial personality disorder** **C. Borderline personality disorder** **D. Avoidant personality disorder**
4	**Varsha does not trust her maid which is working for her since past 3 years. In spite of CCTV cameras at her home she is suspicious about the maid. What type of personality disorder is this?** **A. Paranoid personality disorder** **B. Antisocial personality disorder** **C. Borderline personality disorder** **D. Avoidant personality disorder**
5	**_____ is a personality trait that includes individuals that shows tendency towards anxiety and self doubt.** **A. Consciousness** **B. Agreeableness** **C. Extraversion** **D. Neuroticism**
6	**_____ is a personality trait that includes individuals who are open to experiences.** **A. Consciousness** **B. Agreeableness**

	C. Extraversion **D. Neuroticism**
7	**_____ is a personality trait that includes talkative individuals.** **A. Consciousness** **B. Agreeableness** **C. Extraversion** **D. Neuroticism**
8	**Which of the following functions can be performed with the help of spreadsheets?** **(1) Maintaining records** **(2) Creating videos** **(3) Analysing data** **(4) Performing financial calculations** **(5) Writing letters** **A. 1, 2, 3, 4, 5** **B. 1, 3, 4** **C. 1, 3, 5** **D. 3, 4, 5**
9	**When a number of cells are selected, it is called _____.** **A. Cell** **B. Cell Range** **C. None of these** D. **Both of these**
10	**What is the default alignment of numbers in a cell?** **A. Left aligned** **B. Right aligned** **C. Center aligned** D. **Randomly aligned**
11	**"By default, the text in a cell is left aligned." State whether this is true or false.** **A. True** **B. False** **C. None of these** **D. Can't say**
12	**What is the shortcut key to underline text in a spreadsheet?** **A. Ctrl+B** **B. Ctrl+I** **C. Ctrl+A** **D. Ctrl+U**
13	**What is the shortcut key to select text in a spreadsheet?** **A. Ctrl+B**

	B. Ctrl+A **C. Ctrl+l** **D. Ctrl+U**
14	**What is the shortcut key to select column in a spreadsheet?** **A. Ctrl+b** **B. Ctrl+space** **C. Shift+space** **D. Shift+A**
15	**What is the shortcut key to select row in a spreadsheet?** **A. Ctrl+b** **B. Ctrl+space** **C. Shift+space** **D. Shift+A**
16	**Which of the following features is used to perform addition in spreadsheets?** **A. Format option** **B. Charts** **C. Graphs** **D. Formula**
17	**Which of the following signs define a formula?** **A. +** **B. /** **C. =** **D. +**
18	**Environmental barriers are the same as_____ noise.** **A. Physiological** **B. Psychological** **C. Physical** **D. Sociological**
19	**_____ refers to human efforts for maintaining healthy body and mind.** **A. Stress management** **B. Self motivation** **C. Self regulation** **D. None of above**
20	**Which of these is example of negative feedback?** **A. I hate to tell you this but your drawing skill is poor** **B. You can surely improve your drawing** **C. These are good drawings but you can do better** **D. None of above**
<u>Subject skills</u>	

1	**Which of the following varieties of mango and papaya are suitable for growing in Kitchen gardening?** **A. Amrapali and Pusa Nanha** **B. Totapari and Pusa Ruby** **C. Alphonso and Pusa Gaint** **D. Chausa and Solo**
2	**C:N ratio of FYM is** **A. 20:1** **B. 40:1** **C. 50:1** **D. 80:1**
3	**Khaira disease of rice is due to deficiency of** **A. K** **B. Zn** **C. Cu** **D. Fe**
4	**The most widely used source of nitrogen in India is** **A. Urea** **B. FYM** **C. DAP** **D. CAN**
5	**A complex mixture of brown or dark brown amorphous and colloidal substances modified from the original tissues or synthesized by various soil micro-organism is referred as** **A. Compost** **B. FYM** **C. Peat** **D. Humus**
6	**Which of the following nutrient is absorbed both positive and negative forms** **A. K** **B. P** **C. S** **D. N**
7	**Nitrogen is major nutrient because** **A. It is available in soil more** **B. It is available in soil less** **C. It is required by the plants more** **D. It is available in the atmosphere more**
8	**Root growth is particularly affected by** **A. C** **B. Mg** **C. P** **D. Zn**
9	**The most important nutrient for oil production** **A. N** **B. S**

	C. Cl **D. Mo**
10	**The change of NH_4^+ to NO_3^- is called as** **A. Nitrification** **B. Immobilization** **C. Mineralization** **D. Denitrification**
11	**Potassic fertilizer containing maximum quantity of potash is** **A. Murate of Potash** **B. Sulphate of Potash** **C. Potassium nitrate** **D. None of these**
12	**Resistance to pest and diseases provided by** **A. Ca** **B. P** **C. K** **D. Mo**
13	**Which fruit crop is known as "Apple of paradise" and "Kalptaru"** **A. Banana** **B. Guava** **C. Pear** **D. Fig**
14	**Which of the following is richest source of carbohydrates** **A. Apricot** **B. Date** **C. Karonda** **D. Raisins**
15	**Which of the following is richest source of Vitamin A** **A. Mango** **B. Persimmon** **C. Bathua leaves** **D. Papaya**
16	**Which of the following is incorrect statement** **A. Soil productivity is evaluated by crop production** **B. Soil productivity can be evaluated in laboratory** **C. All productive soils are fertile** **D. Soil fertility is an inherent property**
17	**The term quasi essential plant nutrients govern by** **A. Arnon and Stout** **B. Epstien and Bloom** **C. Nicholsan** **D. De Candole**
18	**Which of the following nutrients are highly mobile in nature** **A. N, P and K** **B. Zn** **C. S, Fe, Mn**

	D. Ca and B
19	**_____ is related with vigorous vegetative growth coupled with dark green colour.** **A. N** **B. P** **C. K** **D. Na**
20	**Soil sampling depth for Plantation crop is** **A. 45cm** **B. 90cm** **C. 20-30cm** **D. 15-20cm**
21	**Conversion factor to calculate soil organic matter content from total organic carbon is** **A. 3.78** **B. 2.72** **C. 1.72** **D. 4.73**
22	**The Banglore method of composting developed by** **A. Manickam** **B. Albert Howard and Wad** **C. Acharya** **D. Narayan Rao Pandhari Pande**
23	**Rhizobium culture suitable for beans** ***A. Rhizobium Phaseoli*** **B. Rhizobium meliloti** **C. Rhizobium trifoli** **D. Rhizobium japonicum**
24	**Which of the following biofertilizer can also be used as green manure crop and inter crop** **A. PSB culture** **B. Rhizobium culture** **C. Trichoderma culture** **D. Azolla**
25	**Which of the following is nitrifying bacteria** **A. Pseudomonas** **B. Nitrobacter** **C. Nitrosomonas** **D. Both (b) and (c)**
26	**Most expensive but most efficient method of irrigation is** **A. Drip irrigation** **B. Sprinkler irrigation** **C. Basin irrigation** **D. Furrow irrigation**
27	**Which of the following type of irrigation system is practised on small scale in India?**

	a) Natural sub-irrigation **b) Artificial sub-irrigation** **c) Flood Irrigation** **d) Lift Irrigation**
28	**International Potato Research Centre at _____** **(A) Shimla** **(B) Peru** **(C) Rome** **(D) USA**
29	**Sprinkler irrigation can be used for almost all crops except** **(A) Cotton, Sorghum** **(B) Rice, Jute** **(C) Chilli, Tomato** **(D) Sugarcane, Beat**
23	**First organic state of India is** **A. Sikkim** **B. Maharashtra** **C. Andhra Pradesh** **D. Chhattisgarh**
24	**What is the importance and benefit of organic farming?** **A. No chemicals** **B. Environment friendly** **C. Increases soil health** **D. All of above**
25	**What is a major component of organic farming / cultivation system?** **A. Pesticides** **B. Synthetic fertilizers** **C. Chemical fertilizers** **D. Bio-fertilizers**
26	**The key principles of organic farming are** **A. Mixed cropping** **B. Crop rotation** **C. Organic cycle** **D. All of obove**
27	**Total organic production in India is** **A. 2.43 million tonnes** **B. 1.35 million tonnes** **C. 6.98 million tonnes** **D. 8.26 million tonnes**
28	**Largest exported organic product in India is** **A. Fruits**

	B. Vegetables **C. Cereals** **D. Oil seeds**
29	**India rank in terms of Organically cultivated area** **A. 1st** **B. 6th** **C. 7th** **D. 15th**
30	**Under which schemes Rhizobium culture, Phosphate solubalizing bacteria is provided to farmers for promoting organic farming?** **A. Pradhanmantri Krishi Vikas Yojna** **B. National Project on Organic farming** **C. Rashtriya Krishi Vikas Yojna** **D. National Food Security Mission**
31	**National project on organic farming promote organic farming by** **A. Providing Biofertilizers and Organic manure to farmers** **B. By demonstrating use of organic farming** **C. By proving financial support in the form of subsidy** **D. None of above**
32	**Under NHM financial assistance up to _____ of total cost for setting up vermicompost unit has been provided to the farmers.** **A. 30%** **B. 60%** **C. 50%** **D. 25%**
34	**Paramparagat Krishi Vikas Yojna is launched in the year** **A. 2016** **B. 2020** **C. 2015** **D. 2000**
35	**Fruit trees should be grown in _____ direction in kitchen garden.** **A. South** **B. North** **C. West** **D. East**
36	**Beans and cucurbits should be grown at** **A. Centre of the kitchen garden** **B. Corner of the kitchen garden** **C. Border of the kitchen garden** **D. Around the plot**
37	**Suitable fruit trees for growing in the kitchen garden are** **A. Guava, dragon fruit, and jamun** **B. Papaya, banana, and lime** **C. Apple, pear and plum** **D. Mandarin, sweet lime and lemon**
38	**Papaya variety that is suitable for growing in the kitchen garden is**

	A. Pusa Nanha **B. Pusa Majesty** **C. Co-5** **D. Pusa Delicious**
39	**Processing percentage of fruits and vegetables in India is** **A. 4%** **B. 6%** **C. 2%** **D. 10%**
40	**Which of the following sentence is incorrect?** **A. Curing is an important post harvest treatment for cole crops** **B. Curing is done for healing of wounds and formation of protective layer** **C. In curing produce are kept in high temperature for several days** **D. Curing enhance the shelf life of the produce**
41	**Hot water treatment is given to which crop to prevent anthrachnose disease?** **A. Mandarin** **B. Mango** **C. Banana** **D. Guava**
42	**What is Impregnation treatment of flowers?** **A. Treating the flowers with high concentration of sucrose and germicide** **B. Loading the flowers with high concentration of silver nitrate** **C. Dipping the flowers in ethylene solution** **D. Spraying NAA solution**
43	**Who has developed zero energy cool chamber storage structure?** **A. Nicholas Appert** **B. S.K. Roy and D.S. Khuridiya** **C. Narayan Rao** **D. K. N. Acharya**
44	**Which of the following is incorrect statement?** **A. Hypobaric storage method is mostly used for storing flowers** **B. Pre-cooling treatment is given only to fruits** **C. Vapor heat treatment is followed to control fruit fly** **D. In fumigation treatment SO_2 gas is used**
45	**Harvesting stage of rose for distant market is** **A. Fully opened flowers** **B. When outer 1 or 2 petals start unfurling** **C. Fully colored tight buds** **D. Half opened flowers**
46	**Concentration of sucrose in pulsing solution is** **A. 10-30%** **B. 2-20%** **C. 6-20%** **D. 3-30%**
47	**By which drying method grains will dry uniformly?** **A. Sun drying**

	B. Mechanical drying **C. Both (A) and (B)** **D. None of above**
48	**Pasta, noodles, breakfast cereals are prepared by using which method?** **A. Fermentation** **B. Flaking** **C. Puffing** **D. Extrusion**
49	**IIFPT (The Indian Institute of Food Processing Technology) located at** **A. Tanjavur, TN** **B. Bangluru, Karnataka** **C. Delhi** **D. Mumbai , Maharashtra**
50	**CFTRI stands for** **A. Central Food Technology Research Institute** **B. Central Fruit Technology Research Institute** **C. Central Food Technological Research Institute** **D. None of above**
51	**Scheme for cold chain, value addition and preservation infrastructure was approved in the year_____** **A. 2010** **B. 2008** **C. 2012** **D. 2014**
52	**Under which scheme MOFPI promote establishment of infrastructure for food processing?** **A. Mega Food Park scheme** **B. Scheme of Infrastructure development** **C. Scheme for technology up gradation** **D. Scheme for value addition**
53	**Mega food park scheme provide s capital of_____ the total project cost in notified area.** **A. 33.3%** **B. 50%** **C. 45%** **D. 25%**
54	**The crops that need a lot of water are** **A. rice and maize** **B. wheat and maize** **C. rice and wheat** **D. maize and other grains**
55	**Which of the following micronutrients mostly deficit in Indian soil** **A. Zn** **B. Mn**

	C. Cu **D. B**
56	**A fertile soil is one which has more** **A. Water** **B. Roots** **C. Available nutrients** **D. More organic matter**
57	**Most important source of sulphur for Indian soil is** **A. Gypsum** **B. Ammonium Sulphate** **C. Pyrite** **D. SSP**
58	**Which of the following is a micronutrient** **A. Ca** **B. N** **C. P** **D. Fe**
59	**Rhizobium of alfa alfa group is** **A. Lupine** **B. Legumini** **C. Japonicum** **D. Melliloti**
60	**In such type of storage, the produce is storage under low pressure atmosphere, vacuum tight and refrigerated condition.** **1. CA storage** **2. MA storage** **3. Zero energy cool chamber storage** **4. Hypobaric storage**
61	**Storage controls shelf life of produce by controlling rate of respiration, transpiration, ripening and biochemical changes all of which are responsible for shelf decomposition/deterioration of produce. Further, different types of storage have different attributes in minimizing microbial infection and thus add to better storability of produce.** **Storage structure used to enhance the shelf life of fresh fruit and vegetables by maintaining the temperature and relative humidity during summer and winter season naturally with the application of water. It is based on the principle of direct evaporation cooling and hence, does not require any electricity or power to operate.** **Which type of storage structure is based on Evaporative cooling principle?** **A. Cellars Storage** **B. Sand and Coir Storage** **C. High Altitude Storage** **D. Zero Energy Cool Chamber**
62	**The primary function of treatment is to control the_____ The SO_2 fumigation is also used to prevent discolouration of skin of litchis.** **A. Botrytis Cinerea**

	B. Aspergillus niger **C. Fruit fly** **D. White fly**
63	**In India, the first fruit and vegetable processing factory was established in year** **A. 1920 at Mumbai** **B. 1950 at Mysore** **C. 1985 at Delhi** **D. 1930 at Bangluru**
64	**For every one percent reduction in loss will save how many tons of fruit and vegetable per year?** **A. 5 million tons** **B. 1 million tons** **C. 10 million tons** **D. 15 million tons**
65	**NPMSH&F stands for** **A. National Program on Management of Soil Health and Fertility** **B. National Project on Management of Soil Health and Fertility** **C. National Project on Maintaining Soil Health and Fertility** **D. National Program on Maintaining Soil Health and Fertility**
66	**Per unit production is known as?** **A. Soil Productivity** **B. Soil Fertility** **C. a & b Both** **D. Production**
67	**What are working principles of organic farming?** **A. To work as much as possible within a closed system, and draw upon local resources.** **B. To maintain the long-term fertility of soils.** **C. To avoid all forms of pollution that may result from agricultural techniques** **D. All of above**
68	**The state with largest area under organic certification is** **A. Maharashtra** **B. Madhya Pradesh** **C. Orissa** **D. Punjab**
69	**The major ways to integrate biological control in IPM program** **A. Conservation and augmentation of natural enemies already available,** **B. Importation and colonization of exotic natural enemies and** **C. Mass culture and release of indigenous as well as exotic natural enemies** **D. All of above**
70	**_____is method of pest control, which utilizes all suitable techniques of pest control to reduce pest populations and maintain them below economic injury level** **A. Integrated Pest Management** **B. Culture control**

	C. Mechanical control **D. Biological control**
71	**Biological control of cottony cushion scale in southern India by the introduction and release of which natural enemy in USA.** **A. Rodolia cardinalis** **B. Vedalia beetle** **C. Aphalinus mali** **D. Trichgramma sp.**
72	**Sympodial branching and square formation stage, Flowering and fruiting stage, Peak boll formation, Boll development and boll opening stage are the critical stages of irrigation for which crop?** **A. Sesamum** **B. Cotton** **C. Linseed** **D. Pea**
73	**Water requirement of Sugarcane is** **A. 1300mm** **B. 1000-1500mm** **C. 1500-2500mm** **D. 400-500mm**
74	**Which irrigation system comprises main line, sub mains, laterals, valves (to control the flow), drippers or emitters (to supply water to the plants), pressure gauges, water meters, filters (to 59 remove all debris, sand and clay to reduce clogging of the emitters), pumps, fertilizer tanks, vacuum breakers, and pressure regulators?** **A. Sprinkler irrigation** **B. Drip irrigation** **C. Trickle irrigation** **D. Both b and c**
75	**The maximum quantity of water which a soil can retain against the force of gravity is known as** **A. Water holding capacity** **B. Hygroscopic water** **C. Field capacity** **D. Available water**
76	**Whole of the hygroscopic water (-10000) plus a part of the capillary water below the wilting point (-15 bar) is known as** **A. Available water** **B. Unavailable water** **C. Gravitational water** D. **Capillary water**
77	**Concentration of urea in foliar application of water is** **A. 3-9%** **B. 9-12%** **C. 11-15%** **D. 2-6%**

78	**Application of solution of N, P2O5 and K2O in the ratio of 1:2:1 and 1:1:2 to young plants at the time of transplanting is known as** **A. Basal application** **B. Foliar application** **C. Starter solution** **D. Fertigation**
79	**Spread of fertilizer in between the rows and around the plants is known as** **A. Basal application** **B. Side dressing** **C. Top dressing** **D. Localized placement**
80	**Which one of the following is free-living N-fixer?** **A. Azotobacter** **B. Azolla** **C. Rhizobium** **D. Vascular Arbuscular Michorrhiza**
81	**INM stands for** **A. Integrated Nitrogen Management** **B. Integrated Nutrient Management** **C. Indian Nutrient Management** **D. None of above**
82	**Which green manure crop improves saline and alkaline soil?** **A. Dhaicha** **B. Sweet clover** **C. Black gram** **D. Sunhemp**
83	**In which composting method prepared a pit (360 cm long × 180 cm wide × 90 cm deep) in a shaded area. Farm wastes such as straw, vegetable refuse, weeds and leaves are spread to a thickness of 15-20 cm. Wet animal dung is spread over this layer to a thickness of 5 cm. Water is sprinkled to moisten the material (50-60 percent of mass). The compost will ready for use after four months.** **A. Indian Coimbatore method** **B. Indian Indore heap method** **C. The Indian Bangalore Method** **D. ADCO Method**
84	**Which is the correct statement?** **A. Fertilizers supply all the primary nutrients including micronutrient** **B. Fertilizers improves physical condition of soil** **C. Manures all the primary nutrients including Micronutrient** **D. Nutrients from fertilizers are slowly available**
85	**Which of the followings is a concentrated Organic Manure?** **A. FYM** **B. Compost** **C. Vermicompost** **D. Safflower cake**
86	**What are the major Management Practices for Carbon sequestration?**

	A. Conservation tillage practices **B. Growing cereals in all season** **C. Use of Nitrogenous fertilizers** **D. Using of growth hormones**
87	**Read the following points** • **Framers get alert about the deficiencies and toxic nutrients exist in their own field and get answers how to overcome.** • **Identify the areas under problem soil (if any) which limits crop growth and gather knowledge for reclamation.** • **Get an idea about fertilizer recommendation and develop their skill in the use of rational/efficient nutrient inputs.** **All are the benefits of** **A. Soil analysis** **B. Soil Sampling** **C. Soil testing** **D. None of above**
88	**Which soil sampling tool is more convenient for taking samples of hard/dry soil?** **A. Tube auger** **B. Spade or khurpi** **C. A screw type auger** **D. Helical auger**
89	**Vitamin-B_{12} is also known as** **A. Pyridoxine** **B. Cyanocobalamin** **C. Cholecalciferol** **D. Nicotinic Acid**
90	**Which of the following is not a criteria of essentiality of nutrients** **A. Plant will be able to complete its life cycle if any other nutrient is given in replace of an essential nutrient** **B. A deficiency of the given element makes it for the plant impossible to complete its life cycle.** **C. The deficiency is specific for the given element and not replaceable by another element.** **D. The element is a constituent of an essential metabolite or it is required for the action of an enzyme system**
91	**Which of the following nutrients remain in immobile state in soil?** **A. NO^{3-}, SO_4^{2-}, BO_3^{2-}** **B. NH^{4+}, K^+, Ca^+** **C. Mg^{2+} Cu^{2+}** **D. $H_2PO_4^-$, HPO_4^{2-}, Zn^{2+}**
92	**Concentration of Nitrogen in plant tissue is** **A. 45%** **B. 0.5%** **C. 1.4%** **D. 2.9%**

93	**Which of the following nutrients shows their deficiency symptoms on older leaves?** **A. N, P, K, Mg, Mo** **B. Fe, Cu, Cl, S, Mn** **C. Zn** **D. Ca, B**
94	**India produced around 5, 85,970 Mt of certified organic products including all varieties of food products. India exported 86 items in the year in 2007- 08 the total volume being 37533 Mt. The export realization was around US $ 100.4 million, registering a 30 per cent growth over the previous year. Organic products are mainly exported to EU, US, Australia, Canada, Japan, Switzerland, South Africa and the Middle East countries. Cotton leads among the products exported (16, 503Mt). The states of Uttarakhand and Sikkim have declared their states as organic states_. In Maharashtra, since 2003, about 5 lakh ha area has been under organic farming (of the 1.8 crore ha of cultivable land in the state). In Gujarat, organic production of chickoo, banana and coconut is being encouraged both from profit as well as yield point of view.** **Rank of India in terms of total number of organic producers is** **A. 2nd** **B. 8th** **C. 1st** **D. 3rd**
95	**Under which scheme, a total of 56 nos. biofertilizers production units and 17 nos. of fruit/vegetables waste compost units have been established in the country. 81 Government has been advocating integrating use of chemical fertilizers and organic manures including biofertilizers for increasing production of major crops.** **A. National Project on Organic Farming (NPOF)** **B. National Horticulture Mission(NHM)** **C. Rashtriya Krishi Vikas Yojna(RKVY)** **D. National Project on Management of Soil Health and Fertility (NPMSH&F)**
96	**Percentage share of Canned vegetables of total processed fruits and vegetables are** **A. 11%** **B. 4%** **C. 27%** D. **6%**
97	**Pre harvest spray of _____prolong shelf life of vegetables.** **A. N-Benzyladenine(BA) 10-20 ppm** **B. Diphenylamine (0.1-0.25%) for 30 seconds** **C. Maleic Hydrazide (200 ppm)** **D. Pre-harvest spray of calcium chloride (0.6%)**
98	**What is the major Objective of storage?** **A. Slow the biological activity and micro-organism growth.**

	B. Avoid glut and distress sale in the market, thus prolonging the market period **C. In long-term storage, making the food available in off-season** **D. All of above**
99	**Gladiolus are harvested for local market when** **A. 25-30% flowers are fully open in the inflorescence** **B. All the florets are open** **C. lower most 1-2 florets are opened** **D. lower most 1-2 florets show colour**
100	**Which treatment restores the turgor of flowers wilted after harvest, storage or transport?** **A. Spraying NAA** **B. Conditioning/hardening** **C. Dipping in salt solution** **D. Precooling**