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| Questio | n Booklet | No.: |
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| Register | | | | 100 | |
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| Number | | | | | |

2021 AGRICULTURE (Degree Standard)

Duration: Three Hours]

[Total Marks: 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

- 1. You will be supplied with this question booklet 15 minutes prior to the commencement of the examination.
- 2. This question booklet contains 200 questions. Before answering the questions, you are requested to check whether all the questions are printed serially and ensure that there are no blank pages in the question booklet. If any defect is noticed in the question booklet, it shall be reported to the invigilator within the first 10 minutes and get it replaced with a complete question booklet. If the defect is reported after the commencement of the examination, it will not be replaced.
- 3. Answer all the questions. All the questions carry equal marks.
- 4. You must write your register number in the space provided on the top right side of this page. Do not write anything else on the question booklet.
- 5. An answer sheet will be supplied to you separately by the room invigilator to shade the answers.

 Instructions regarding filling of answers etc., which are to be followed mandatorily, are provided in the answer sheet and in the memorandum of admission (Hall Ticket).
- 6. You shall write and shade your question booklet number in the space provided on page one of the answer sheet with BLACK INK BALL POINT PEN. If you do not shade correctly or fail to shade the question booklet number, your answer sheet will be invalidated.
- 7. Each question comprises of five responses (answers): i.e. (A), (B), (C), (D) and (E). You have to select ONLY ONE correct answer from (A) or (B) or (C) or (D) and shade the same in your answer sheet. If you feel that there are more than one correct answer, shade the one which you consider the best. If you do not know the answer, you have to mandatorily shade (E). In any case, choose ONLY ONE answer for each question. If you shade more than one answer for a question, it will be treated as a wrong answer even if one of the given answers happens to be correct.
- 8. You should not remove or tear off any sheet from this question booklet. You are not allowed to take this question booklet and the answer sheet out of the examination room during the time of the examination.

 After the examination, you must hand over your answer sheet to the invigilator. You are allowed to take the question booklet with you only after the examination is over.
- 9. You should not make any marking in the question booklet except in the sheets before the last page of the question booklet, which can be used for rough work. This should be strictly adhered to.
- 10. Failure to comply with any of the above instructions will render you liable for such action as the Commission may decide at their discretion.

SPACE FOR ROUGH WORK

1001522

| | | 3 | | AOEX/2021 |
|-------|---|---|--|--|
| (E) | Answer not known | 1. | | |
| 48 | Azure Blue | (D) | Golden Yellow | |
| (A) | White | (B) | Opal Green | |
| What | t is the colour of certification | n tag for certif | ied class seed? | |
| | | | | |
| (E) | Answer not known | (| | |
| (C) | Bajra | | Groundnut | |
| | | (B) | | |
| | | | | low? |
| | | | | |
| (E) | Answer not known | | | |
| (C) | 8000 heads | 4 | 9000 heads | |
| (A) | 700 heads | (B) | AND LOCATION OF REAL PROPERTY AND A STATE OF THE PARTY OF | |
| how | many heads to be counted | by the seed | certification officer a | |
| (E) | Answer not known | | | |
| (F) | | (D) | . Section 19 | |
| (A) | | | | |
| the f | ollowing section of the Seed | ls Act, 1966. | | ied under which o |
| | | | | |
| (E) | Answer not known | | | |
| 5 | 110°F | (D) | 168°F | |
| (A) | 65°F | (B) | 87°F | |
| | (E) Cert the f (A) (E) If 22 how field (A) (C) (E) Whice (A) (C) (E) | Certification shall be conducted the following section of the Seed (A) Section 9 Section 8 (E) Answer not known If 22 acres of area registered by how many heads to be counted field Inspection? (A) 700 heads (C) 8000 heads (E) Answer not known Which of the following crop the section (A) Paddy (C) Bajra (E) Answer not known What is the colour of certification (A) White Azure Blue | Certification shall be conducted by the certification shall be conducted by the certification of the Seeds Act, 1966. (A) Section 9 (B) (B) Section 8 (D) (E) Answer not known If 22 acres of area registered by a seed product how many heads to be counted by the seed of field Inspection? (A) 700 heads (B) (C) 8000 heads (E) Answer not known Which of the following crop the Seed Multiplication (A) Paddy (B) (C) Bajra (D) (E) Answer not known What is the colour of certification tag for certification tag for certification (A) White (B) (C) Azure Blue (D) (E) Answer not known | Certification shall be conducted by the certification Agency notification shall be conducted by the certification Agency notification shall be conducted by the certification Agency notification shall be conducted by the seed shall be seed s |

The temperature limit for heated air drying for seed is

1.

| | (A) | Helopeltis antonii | (B) | Phymatostetha deschampes |
|-----|------------|--|------------|---|
| | 48 | Pentalonia nigronervosa | (D) | Stephanitis typicus |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 7. | | hemical responsible for the product e gall midge is | cion o | of silver shoot in rice due to the attack |
| | (A) | Cumanin | (3) | Cecidogen |
| | (C) | Oryzinone | (D) | Phenol |
| | (E) | Answer not known | | |
| | | | | |
| | | | • | |
| 8. | In Ins | sects, if the food resources shared eq | ually | by the competing members it is called |
| | (A) | Contest competition | (B) | Inter competition |
| | () | Scramble competition | (D) | Mutualistic competition |
| | (E) | Answer not known | | |
| | | | | |
| | | | , , | |
| 9. | First | report of Nematode associated with | a pla | |
| | (A) | Hiltner | B) | Needham |
| | (C) | Mckinney | (D) | Mayer |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 10. | The F | Pest as grub which completes its life | cycle | in one year is |
| | (A) | Scirpophaga nivella | (B) | Acigona steniella |
| | (C) | Chilo auricilius | () | Holotrichia serrata |
| | (E) | Answer not known | | |
| | | | | |

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Bunchy top of banana disease is transmitted by

6.

| 11. | The | following is not a characteristic of land |
|-----|------|--|
| | (A) | Free gift of Nature |
| | (B) | Permanent resource |
| * | (C) | Distinct characteristic features from location to location |
| | 4 | Supply is elastic |
| | (E) | Answer not known |
| 12. | The | slope of Isoquant indicates |
| | (A) | Marginal rate of product substitution |
| | 95 | Marginal rate of technical substitution |
| | (C) | Elasticity of substitution |
| | (D) | Elasticity of supply |
| | (E) | Answer not known |
| | | |
| 3. | At B | reak event point, the profits to the farmer is |
| | (A) | Negative Zero |
| | (C) | Positive (D) Cannot be calculated |
| | (E) | Answer not known |
| 4. | Whic | h of the following is/are irrational zone(s) of production |
| | (A) | I zone (B) II zone |
| | (C) | III zone I and III zone |
| | (E) | Answer not known |
| 5. | This | method of depreciation is suitable for livestock assets |
| | (A) | Straight line method |
| | (B) | Diminishing balance method |
| | (C) | Sum of year digit method |
| | \$ | Annual revaluation method |

(E)

Answer not known

| 16. | pack | e price of coffee rises from Rs.45 per , and as a result the consumer's de s of 250 gms, then the cross elastici | mand | ms per pack to Rs. 55 per 250 gram per for tea increases from 600 packs to 800 emand of tea for coffee is |
|------------------|--------------|--|------------------|---|
| | (A) | 0.7 | (B) | 1.43 |
| | (C) | 1.34 | 9 | 1.5 |
| | (E) | Answer not known | | |
| 17. | Alloc | cative efficiency is also called as | | |
| | 4 | Pricing efficiency | (B) | Physical efficiency |
| | (C) | Technical efficiency | (D) | Operational efficiency |
| | (E) | Answer not known | | |
| 18. | The farm | | y the | consumer and the price received by the |
| | 1 | Price spread | (B) | Market margin |
| | (C) | Wholesale price | (D) | Retail price |
| * | (E) | Answer not known | | |
| 19. | A m | arket in which the purchase and sexchange of commodity takes place | ale of on som | a commodity takes place at time 't' but ne specified date in future i,e time t + 1 |
| | 41) | Forward market | (B) | Spot market |
| | (C) | Secular market | (D) | National market |
| | (E) | Answer not known | | |
| | | | | |
| 20. | Agri basi | | nto reg | rulated and unregulated market on the |
| 1 ₄ . | (A) | Basis of stage of marketing | (B) | Basis of degree of competition |
| | (C) | Basis of nature of transactions | 1 | Extent of public intervention |
| | (E) | Answer not known | | |

AOEX/2021

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| | reying a special message to each | |
|------|----------------------------------|--|
| (A) | Klapper | Rogers |
| (C) | Dey | (D) Berlo |
| (E) | Answer not known | |
| | | |
| | M - C - R - E model of communic | (1) 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| (A) | Leagar | Rogers and Shoemaker |
| (C) | Berlo | (D) Shannon – Weaver |
| (E) | Answer not known | |
| Mate | th the following: | |
| (a) | Spoken 1. Fold | der |
| (b) | | e recorder |
| (c) | | pet show |
| (d) | Non - Projected 4. Film | |
| \-\' | | |
| | (a) (b) (c) (d) | |
| (A) | 2 1 4 3 | |
| (B) | 1 2 3 4 | |
| (C) | 2 · 3 · 4 · 1 | |
| (D) | 4 3 2 1 | |
| (E) | Answer not known | |
| | | |
| Disp | lay type of visual aids | |
| US. | Posters - Bulletin Bounds, mod | dels – exhibits |
| (B) | Slide - Filmship - Demonstrat | |
| (C) | Flashcards – Pullchart – Slide | |
| (D) | None of the above | |

25. Extension teaching methods according to their use

Written - spoken - visual - spoken and visual

Individual, group and mass contact

(C) Micro computer, E - mail and internet

None of the above (D)

(E) Answer not known

- 26. The State having the highest area under fruits

 (A) Kerala
 - (B) Tamil Nadu

 Maharashtra
 - (D) Karnataka
 - (E) Answer not known
- 27. The guidelines for Intellectual property management and commercialization of technologies in the ICAR came into operation with effect from 2nd October,
 - (A) 1996



- (C) 2016
- (D) 2000
- (E) Answer not known
- 28. In first Five Year Plan, percentage of agriculture and allied sector to total outlay is
 - (A) 20%

(B) 21%

(C) 24%

31%

(E) Answer not known

- 29. The medium range weather forecasting is valid for
 - (A) 3 days

3 - 10 days

(C) 15 - 20 days

(D) 21 - 25 days

- (E) Answer not known
- 30. Identify the correct order of atmospheric layer arrangement from the surface of the earth to the top layer of atmosphere.



Troposphere, Stratosphere, Mesosphere, Thermosphere

- (B) Thermosphere, Stratosphere, Mesosphere, Troposphere
- (C) Troposphere, Mesosphere, Stratosphere, Thermosphere
- (D) Thermosphere, Mesosphere, Stratosphere, Troposphere
- (E) Answer not known
- 31. Total number of agro climatic zones of Tamil Nadu is
 - (A) 5

100 7

(C) 9

(D) 11

- (E) Answer not known
- 32. The recommended pre emergence herbicide for Maize and Pulse inter crop is
 - (A) Atrazine @ 0.75 Kg a.L / ha
 - Pendimethalin @ 0.75 Kg a.L / ha
 - (C) Butachlor @ 1.0 Kg ai / ha
 - (D) Quizalofop ethyl @ 0.5 Kg ai / ha
 - (E) Answer not known

| 33. | Soil calle | | general | shapes and arrangement of peds are |
|-----|------------|--|---------|--|
| | 4 | Types of structure | (B) | Grades of structure |
| * | (C) | Classes of structure | (D) | None of the above |
| | (E) | Answer not known | | |
| | | | | |
| 34. | | order characterized by low (< 35% soil is called as |) base | saturation and accumulation of clay in |
| | (A) | Aridisols | (B) | Spodosols |
| | (C) | Mollisols | 98 | Ultisols |
| | (E) | Answer not known | | |
| | | | | |
| 35. | - - | is an example for ferroma | gnesiar | n phyllosilicate minerals. |
| | W | Biotite | (B) | Feldspars |
| | (C) | Orthoclase | (D) | Amphiboles |
| | (E) | Answer not known | | |
| | | | | |
| 36. | Whic | ch of the following epipedon has hi | gh orga | nic matter? |
| | (1) | Histic | (B) | Natric |
| | (C) | Salic | (D) | Oxic |
| | (E) | Answer not known | | |
| | | | | |
| 37. | The | columnar soil structure is observed | l in — | soils. |
| | (A) | Saline | | Sodic |
| | (C) | Black | (D) | Red |
| | (E) | Answer not known | | |

| 38. | Till | er Production in rice is greatly affe | cted by | |
|-----|-------|--|---------|---|
| | (A) | Complete drainage | 4 | Prolonged stagnation of water |
| | (C) | Alternate wetting and drying | (D) | Short period submergence |
| | (E) | Answer not known | | |
| | | | | |
| 39. | Ider | ntify the incorrect/wrong statement | about | irrigation |
| | (A) | Irrigation is to provide crop insu | rance a | against short duration droughts |
| | (B) | Irrigation is to cool the soil and | atmosp | here |
| | 4 | Irrigation is to keep the soil wet | | |
| 3. | (D) | Irrigation is to wash out/dilute s | alts in | soils |
| | (E) | Answer not known | | |
| | | | | |
| 40. | Inter | rmittent "on" and "off" system is fol | llowed | in ——— irrigation system. |
| | (A) | Level border | (B) | Border strip |
| | 5 | Surge | (D) | Basin |
| | (E) | Answer not known | | |
| | | | | |
| 41. | The . | | • | |
| 11. | The | Physiological age of crops | | ose nutrient deficiency should consider |
| | (C) | | (B) | Chronological age of crops |
| | (E) | Stage of crop maturity Answer not known | (D) | All the above |
| | (12) | Answer not known | | |
| | | | | |
| 12. | Whic | h of the following BGA is not widel | y distr | ibuted in rice growing tracts of India |
| | (A) | Anabaena | | Nostac |
| | (C) | Calothrix | (0) | Tolypothrix |
| | (E) | Answer not known | • | |

| 43. | | r the provisions of UPOV 1991 Acty, distinction, uniformity and | et, a pla | nt variety must satisfy the criteria viz. |
|-------|------------|---|------------|--|
| | (A) | Purity | (B) | Heterozygosity |
| | (C) | Homozygosity | | Stability |
| | | Answer not known | • | Statistics and the state of the |
| | (E) | Answer not known | | |
| 44. | | | tural ha | abitate or in the area where it grow |
| | | rally is known as | (T) | |
| | (1) | in-situ conservation | (B) | cryopreservation |
| | (C) | conservation in gene bank | (D) | ex-situ conservation |
| | (E) | Answer not known | | |
| 45. | NBP | GR has substation at — | – to rep | resent arid zone. |
| | (A) | Akola | (B) | Kota |
| | 3 | Jodhpur | (D) | Jaipur |
| | (E) | Answer not known | | |
| 46. | prolo | nged storage of culture? | | sed for creating high osmoticum fo |
| | (A) | Paclobutrazole ` | (B) | Chlormequat |
| | (0) | Sorbitol | (D) | Naphthalene acetic acid |
| | (E) | Answer not known | | |
| 47. | Whic | ch one of the following is not a pro | perty of | a good host for gene cloning? |
| | (A) | lack active restriction enzyme | | |
| | 1 | have methylase | | |
| | (C) | easy to transform | | |
| | (D) | support the replication of recom | binant 1 | DNA |
| | (E) | Answer not known | | |
| 48. | total | of DNA insert represent the entire | ng recom | nbinant DNA molecules so that the sur ne of the concerned organism is called Genomic library |
| 40. * | (A) | cDNA clone | (D) | D374 33 |
| | (C) | Gene Bank | (D) | CDNA library |
| | (E) | Answer not known | | |
| 49. | The | chairman of the state variety rele | | mittee |
| | (A) | Director of state seed corporation | | |
| | 9 | Director of Agriculture of the st | ate | |
| | (C) | Director of seed certification | | |
| | (D) | Additional director of agricultur | re | |
| | (E) | Answer not known | | |

| 50. | Sew village concept facilitates the empowerment of Agriculture farmers | | | | | | | |
|-----|--|--|--------------|-------|---------------------------------------|--|--|--|
| | (A) | To make High Profit through export | | | | | | |
| | 95) | To meet the requirement of quantity of quality sew | | | | | | |
| | (C) | To facilitate to become sew company | | | | | | |
| | (D) | To supply for Governme | ent demand | | | | | |
| , | (E) | Answer not known | | | | | | |
| 51. | Acid | Acid delinting is recommended for fuzzy cotton seed at the rate of | | | | | | |
| | (A) |) 10 ml con.sulphuric acid/kg of seeds | | | | | | |
| | 100 | 100 ml con sulphuric acid/kg of seeds | | | | | | |
| | (C) | 50 ml con.sulphuric acid/kg of seeds | | | | | | |
| | (D) | 25 ml con. sulphuric acid/kg of seeds | | | | | | |
| _ ' | (E) | Answer not known | | | | | | |
| | | | | | | | | |
| 52. | is the most critical factor in the maintenance of seed germination and | | | | | | | |
| | viabil | lity of seed during storag | e | | | | | |
| | (A) | Colour | 4.5 | (B) | Health | | | |
| | 45 | Moisture content | | (D) | Purity | | | |
| | (E) | Answer not known | | | | | | |
| 53. | | ht of submitted sample and shall be | s for moistu | ıre e | estimation of species that have to be | | | |
| | (1) | 100 g | | (B) | 50 g | | | |
| | (C) | 25 g | | (D) | 10 g | | | |
| | (E) | Answer not known | | • | | | | |
| 54. | | In which of the following country The World First Station for seed testing was established | | | | | | |
| | (A) | Denmark | , , | (B) | U.S.A. | | | |
| | 40 | Germany | | (D) | Spain | | | |
| | (E) | Answer not known | | | | | | |
| | | | | | | | | |

| | (A) | Ultra Light Violet | | |
|-----|-----|---|------|---|
| | (B) | Unlimited Light Visibility | | |
| | 100 | Ultra Low Volume | | |
| | (D) | Ultra Linear Variation | | |
| | (E) | Answer not known | | |
| 56. | | weed is the alternate. Wee | d ho | st for Ergot disease in Pearl millet. |
| | 4 | Cenchrus Ciliaris | (B) | Saccharum Spontaneum |
| | (C) | Crotalaria sp | (D) | <u>Parthenium</u> |
| | (E) | Answer not known | | |
| 57. | | combined effect of weed infestation ed as | due | to allelo chemicals and competition i |
| | (A) | Allelopathy | (B) | Eradication |
| | (C) | Parasitism | 10) | Interference |
| | (E) | Answer not known | | |
| | | | | |
| 58. | | practical utilization of nematode eved towards which of the following i | | nsmitted bacterium <u>Bacillus</u> <u>Popilla</u> |
| | (A) | Chaffer beetle | (3) | Japanese beetle |
| | (C) | Rhinoceros beetle | (D) | Epilachna bettle |
| | (E) | Answer not known | | |
| 59. | The | biological control agent used for man | agen | nent of rice leaf folder is |
| | (A) | Trichogramma Faponicum | (B) | Trichogramma Minutum |
| | 4 | Trichogramma Chilonis | (D) | Trichogramma australicum |
| | (E) | Answer not known | | |

ULV spraying of herbicides refers to

55.

| 60. | Fari | mer with good mental and moral wi | ll have | e a good |
|-----|-------|---|---------|------------------------------|
| | M | Character | (B) | Capacity |
| * | (C) | Capital | (D) | Condition |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 61. | Capa | acity is the second "C" of 3'C of credi | t, whi | ch indicates |
| | (A) | Capacity to withstand risk | 0 | Capacity to repay loan |
| | (C) | Capacity to avail loan | (D) | Capacity to manage the farm |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 62. | The | following is not included under purp | ose w | ise classification of credit |
| | (A) | Production loan | (B) | Marketing loan |
| | W. | Short term loan | (D) | Consumption loan |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 63. | The i | institution involved in linking Self I | | |
| | (A) | RBI | 98 | NABARD |
| | (C) | ARDC | (D) | World Bank |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 64. | The V | World Bank is officially known as | | |
| | (A) | ADB | (B) | CRAFICARD |
| | 4 | IBRD | (D) | ARDC |
| | (E) | Answer not known | | |

| 00. | Tain | i management is not concerned abo | uv | |
|-------------|------|---|-------|--|
| | (A) | Economic efficiency | (B) | Profit |
| | 195 | Inter-farm study | (D) | Problems of individual farm |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 66. | The | focus of ——— was on food, | work | and productivity. |
| | (A) | VI plan | (3) | VII plan |
| | (C) | VIII plan | (D) | IX plan |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 67. | | ffer Curve (OC) is defined as the and at different. | locus | of pairs of its export offer and impor |
| | (A) | Balance of Payment (BOP) | (B) | Balance of Trade (BOT) |
| | (C) | Terms of Payment (TOP) | T | Terms of Trade (TOT) |
| • | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 68. | WTC |) was established in the year | | |
| | (A) | 1945 | (B) | 1965 |
| | 0 | 1995 | (D) | 2015 |
| | (E) | Answer not known | | |
| | | | , | |
| | | | | |
| 69. | Geog | raphical Indications comes under – | | agreement. |
| | W | TRIPS | (B) | AMS |
| | (C) | SPS | (D) | TRIMS |
| r v Hali | (E) | Answer not known | | |
| | | | | |

| 70. | The | C) Periodic markets Answer not known Secular markets E) Answer not known Solution 19 Secular markets The Constitution 72 rd Amendment Act 1992 The Constitution 72 rd Amendment Act 1995 The Constitution 72 rd Amendment Act 1995 The Constitution 72 rd Amendment Act 1995 The Constitution 72 rd Amendment Act 1996 The Constitution 72 rd Amendment Act 1 | |
|-------|------------|--|---|
| | (A) | Short period markets | (B) Regional markets |
| | (C) | Periodic markets | Secular markets |
| | (E) | Answer not known | |
| | | | |
| · 71. | Not sha | less than one-third of the tot ll be reserved for women – It | al number of seats in all the three tiers of panchaya |
| | 4 | The Constitution 73rd Ame | ndment Act 1992 |
| | (B) | The Constitution 73rd Ame | ndment Act 2000 |
| | (C) | The Constitution 72 nd Ame | ndment Act 1995 |
| | (D) | The Constitution 93rd Ame | ndment Act 1976 |
| | (E) | Answer not known | |
| | | | |
| 72. | A se | t of interrelated units that armon goal. | e engaged in joint problem solving to accomplish |
| | (A) | Group | |
| | (B) | Society | |
| | (C) | Socialization | |
| | 95 | Social system | |
| | (E) | Answer not known | |
| | | | |
| 73. | It is 1 | plan of activities to be undert | aken in a particular time sequence. |
| | (A) | | |
| | (C) | Problem | Calendar of work |
| | (E) | Answer not known | |
| 74. | Socia | lly acceptable ways of behavio | our that do involve moral standards |
| | (A) | Folkways | Moves |
| | (C) | Norms | (D) Beliefs |
| | (E) | Answer not known | |
| | | | |

| | cnan | ges the behaviour | | |
|-----|------|-------------------------------------|------|--|
| | W | Learning | (B) | Teaching |
| | (C) | Attitude | (D) | None of the above |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 76. | Adop | tion index suitable for Laggards is | | en e |
| | (A) | 2.5% | (B) | 13.5% |
| | 4 | 16% | (D) | 34% |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 77. | To n | | | through NARS strong and supportive |
| | | ——— policies are very imporative | • | |
| | (A) | WHO Policies | | |
| 100 | (B) | FAO Policies | | |
| | 45 | IPR and SPS driven | | |
| | (D) | NARS Policies | | |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 78. | | is chairman of the NITI Aa | yog. | |
| | 1 | Prime Minister | | |
| | (B) | President | | |
| | (C) | Finance minister | | |
| | (D) | Agriculture minister | | |
| | (E) | Answer not known | | |
| | | | | |

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Is the process by which an individual through one's own effort and abilities to

75.

| 79. | The | first IIT that provided agricultural | educa | tion is |
|-----|-------|--------------------------------------|---------|--------------------------------------|
| | (A) | IIT, Chennai. | (B) | IIT, Ahmedabad |
| | 4 | IIT, Kharagpur | (D) | IIT, Delhi |
| | (E) | Answer not known | | |
| 1, | | | | |
| | | | | |
| 80. | The | is a unique institution | under | ICAR to conduct research and trainin |
| | in ag | gricultural management. | | |
| | (A) | IVRI | (B) | NDRI |
| | (C) | IWMI | 98 | NAARM |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 81. | India | a is world's ———— largest prod | lucer o | of fruits and vegetables. |
| | (A) | First | 100 | Second |
| | (C) | Third | (D) | Fourth |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 82. | Four | fold food production occurred in | | |
| | (A) | White revolution | 05 | Green revolution |
| | (C) | Blue revolution | (D) | None |
| | (E) | Answer not known | | |
| | | | | |
| | | | | |
| 83. | The b | oook "Horse Hoeing Husbandry" wa | s write | ten by |
| | (A) | Aurthur Young | 1 | Jethro Tull |
| | (C) | Van Helmont | (D) | Sir Humphry Davy |
| | (E) | Answer not known | | |

| 84. | | is a cumbu hybrid ric | e in fe con | tent. | |
|-----|-------|---|-------------|----------------------------|---------------|
| | M | Hybrid Co 9 | | | |
| ** | (B) | Hybrid Co 5 | | | |
| | (C) | Co 10 | | | |
| | (D) | Co 9 | | | |
| | (E) | Answer not known | | | |
| | | | | | |
| 85. | The | rice variety recommended under | semi dry | condition is | |
| | 1 | Anna 4 | (B) | ADT 50 | |
| | (C) | CR 1009 | (D) | Co 52 | |
| | (E) | Answer not known | | | |
| | | | | | |
| 86. | | recommended dose of fertilizers O ₅ K ₂ O/ha | for rainfe | d maize in Alfisols is —— | kg |
| | W | 60:30:30 | (B) | 40:20:0 | |
| | (C) | 80:40:40 | (D) | 90:45:45 | |
| | (E) | Answer not known | | | |
| 87. | | Recommended seed rate for sun a in Tamil Nadu. | hemp - v | arietal seed production is | |
| | (A) | 10 –15 | (B) | 40 – 50 | |
| | (C) | 100 | 8 | 20 – 30 | |
| | (E) | Answer not known | | | |
| 88. | | is recommended for | the remov | al of Ergot affected seeds | and sclerotia |
| 00. | to pr | event primary infection in cumb | | ar or hight ancolou secus | did bolorous |
| | 1 | 10% common salt | (B) | 10% Urea | |
| | (C) | 5% Ammonium sulphate | (D) | 10% Atrazine | |
| | (E) | Answer not known | | | |
| | | | | | |

| 89. | What is the absorption of ions in plants occurring with the aid of metabolic energy called? | | | | | | |
|-----|---|------------------------------------|---------|-----------------------------------|--|--|--|
| | (A) | Passive absorption | (B) | Metabolic absorption | | | |
| | (C) | Mass flow absorption | V | Active absorption | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| 90. | The | al planning is ———— ha. | | | | | |
| | 1 | 252 to 4000 | (B) | 16 to 252 | | | |
| | (C) | 1.6 to 16 | (D) | 0.6 to 4 | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| 91. | The | properties of soil which determine | the wat | ter movement and root penetration | | | |
| | (A) | Chemical properties | (B) | Biological properties | | | |
| | (C) | Physico-chemical properties | 0 | Physical properties | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| 92. | A slop | pe of ———— % is good for hi | ghway a | and building constructions. | | | |
| | 4 | 8 | (B) | 8 – 10 | | | |
| | (C) | 8-15 | (D) | >15 | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| 93. | The o | rganic matter content of the peat | soil is | | | | |
| | (A) | < 5% | (B) | 5 – 20% | | | |
| | (C) | 20 – 50% | 01 | >50% | | | |
| | (F) | Anguan not Image | | | | | |

| | (E) | Answer not known | | | |
|-----|-----------------|--|-------------------------|----------------|----------------------------|
| | | | | | * |
| 95. | The s | sewage and sludge contains an averag | e N | PK content of | |
| | (A) | 2.0 to 3.0% N, 1.0% P ₂ O ₅ and 1.0% F | ζ ₂ Ο | | |
| | (B) | 2.0 to 4.0% N, 2.0% P ₂ O ₅ and 1.0% F | K ₂ O | | |
| | 9 | 3.0 to 6.0% N, 2.0% P ₂ O ₅ and 1.0% I | X ₂ O | | |
| | (D) | 3.0 to 6.0% N, 2.0% P ₂ O ₅ and 2.0% I | Κ ₂ Ο | | |
| | (E) | Answer not known | | | |
| | | | | | |
| | | | | | |
| 96. | | ogas production, the last stage of ana | | | te and H ₂ plus |
| | CO ₂ | are converted into methane, CO ₂ , H ₂ C |) is l | known as | |
| | (A) | Acidogenesis | 98 | Methanogenesis | |
| | (C) | Hydrolysis | (D) | Glycolysis | |
| | (E) | Answer not known | | | |
| | | | | | |
| | | | | | |
| 97. | The | microsymbiont present in actinorhizal | lroc | t nodule is | |
| | (A) | Rhizobium phaseoli | | | |
| | (B) | Rhizobium lupini | | | |
| | (C) | Rhizobium leguminosarum | | | |
| | 4 | Frankia | | | |
| | (E) | Answer not known | | | |

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The fungi that degrades lignin as well as cellulose from agricultural waste

(B) Mucor

(D) Rhizopus

94.

(C)

(E)

AOEX/2021

Pleurotus

Fomes

| 98. | Ang | example for groundnut variety relea | sed th | rough mutation |
|------|------------|--|---------|---|
| | 43 | TG 17 | (B) | Co 6 |
| | (C) | TMV 3 | (D) | VRI 6 |
| | (E) | Answer not known | | |
| 99. | Whi | ch one of the following rice variety i | s resis | tant to rice gall midge |
| | 1 | MDU 3 | | IR 64 |
| | (C) | Co 51 | (D) | ADT 39 |
| | (E) | Answer not known | | |
| 100 | | | | |
| 100. | | erosis results from the masking of inant alleles | harm | ful effects of recessive alleles by their |
| | (A) | Gene-for-gene hypothesis | 4 | Dominance hypothesis |
| | (C) | Recessive hypothesis | (D) | Over dominance hypothesis |
| | (E) | Answer not known | | |
| 101. | Thre | e way cross is a cross between | | |
| | (A) | a cross between (A × B) | | |
| | (B) | a double cross $(A \times B) \times (C \times D)$ ar | nd an i | inhred (E) |
| | 8 | a single cross $(A \times B)$ and an inbre | | moreu (D) |
| | | | | inter |
| | (D) (E) | a cross between a single cross and Answer not known | a var. | lety |
| | | | | |
| 102. | Penn | isetum violaceum is a source for — | | —— in Bajra. |
| | (A) | Downy mildew resistance | (B) | Ergot disease resistance |
| | 4 | Male sterility | (D) | Stem borer resistance |
| | (E) | Answer not known | | |
| 103. | Whic | ch of the following method is not rele | evant t | to hybrid rice seed production? |
| | (A) | Three-line system | | Two-line system |
| | (C) | Using chemical emasculators | | Using Gynomonoecious lines |
| | (C) | Anguage not 1 | (4) | Come Gynomonoeclous lines |

| 104. | Seed as | lings with weak (or) unbalan | ced developr | nent of essential structures are refe | errec |
|------|------------|--------------------------------|----------------|---------------------------------------|-------|
| | (A) | Decayed seedlings | 6 | Deformed seedlings | |
| | (C) | Damaged seedlings | (D) | Diseased seedlings | |
| | (E) | Answer not known | | | |
| | | | | | |
| 105. | Mini | mum germination limits pres | scribed for la | belled seed of cotton is | |
| | (A) | 80% | S | 65% | |
| | (C) | 75% | (D) | 60% | |
| | (E) | Answer not known | | | |
| 106. | Num | | mple for max | timum permissible off-types of 0.10 |)% ir |
| | | 4000 plants | (B) | 400 plants | |
| | (C) | 2000 plants | (D) | 800 plants | |
| | (E) | Answer not known | | | |
| 107. | ISTA | office in located at | | | |
| | (A) | France | | Switzerland | |
| | (C) | India | (D) | America | |
| | (E) | Answer not known | | | |
| | | | | | |
| 108. | Cross | s pollination range of gossypi | um hirsutun | ı is ——— percent. | |
| | (A) | 1 to 2% | (B) | | |
| | (C) | 10 to 20% | | 10 to 50% | |
| | (E) | Answer not known | | | |
| AOE | X/202 | | 24 | | χ |

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| 109. | The | he entomopathogenic fungi effective against citrus rust mite is | | | | |
|------|--------|---|------------|---|--|--|
| | 18 | Hirsutella thompsoni | | | | |
| | (B) | Metarhizium anisopliae | | | | |
| | (C) | Beauveria bassiana | | | | |
| | (D) | Verticillium lecanii | | | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| 110. | Whic | ch of the following sprayers wor | ks on the | same principle as the rocker sprayer? | | |
| | (A) | Knapsack sprayer | | | | |
| | (B) | Wheel - barrow sprayer | | | | |
| | (C) | Power - take-off sprayer | | | | |
| | 95 | Pedal pump sprayer | | | | |
| * | (E) | Answer not known | | | | |
| | | | | | | |
| 111. | Aflat | oxin is an example of | | | | |
| | (A) | Pathotoxin | (B) | Vivotoxin | | |
| | (C) | Phytotoxin | 4 | Mycotoxin | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| 112. | In tea | a, which one of the following ins | secticides | does not cause resurgence of pink mite. | | |
| | (A) | Cypermethrin | 0 | Permethrin | | |
| | (C) | Deltamethrin | (D) | Fenvalerate | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| 113. | Which | h one of the following crop is se | nsitive to | carbaryl? | | |
| | (A) | Paddy | (B) | Cotton | | |
| | 4) | Soybean | (D) | Groundnut | | |
| | (E) | Answer not known | | | | |

| 114. | Farm | ners Service societies were first established in the year | |
|------|--------|--|----|
| | (A) | 1951 (B) 1961 | |
| | 9 | 1971 (D) 1981 | |
| | (E) | Answer not known | |
| | | | |
| | | | |
| 115. | The c | committee which recommended the merger of RRB with sponsoring bank. | |
| | (A) | Hadgil committee | |
| | 9 | Khusro committee | |
| | (C) | Narasimham committee | |
| | (D) | Bhandari committee | |
| | (E) | Answer not known | |
| | | | |
| | | | |
| 116. | The A | Apex Refinance Institution for agriculture and rural development is | |
| | (A) | RBI | |
| | (B) | World Bank | |
| | \$ | NABARD | |
| | (D) | AFC | |
| | (E) | Answer not known | |
| | | | |
| | | | |
| 117. | | decline in the value of asset due to usage, accidental damage and tirescence is called | ne |
| | 4 | Depreciation | |
| | (B) | Opportunity cost | |
| | (C) | Time value of money | |
| | (D) | Law diminishing return | |
| | (E) | Answer not known | |
| AOE | X/2021 | 1 26 | γ |

| 110. | IVIIII | imum support prices for different agr | ricuit | ural crops are announced before |
|------|--------|--|--------|---|
| | 4.5 | Sowing season | (B) | Harvesting season |
| | (C) | Monsoon season | (D) | Summer season |
| | (E) | Answer not known | | |
| | | | | |
| 110 | TT J | | | |
| 119. | | | | e forced to sell part of their produce to |
| | the (| Government at the announced prices | • | |
| | (A) | Monopoly procurement | (B) | Pre-emptive purchase |
| | (C) | Buffer stock | 98 | Levy |
| | (E) | Answer not known | | |
| | | | | |
| 120. | | means developing entrepr | onou | rshin in agricultural sector |
| 120. | | | | |
| | | Agri- preneurship | (B) | Entrepreneurship |
| | (C) | Horti-preneurship | (D) | Flori-preneurship |
| | (E) | Answer not known | | |
| | | | | |
| 121. | The | Indian Cooperative Societies Act 1 | 912. | defined cooperative as a |
| | | | | members by Co-operative principles |
| | | hich majority of the members are ag | | |
| | (A) | Section 3 | 1 | Section 4 |
| | (C) | Section 5 | (D) | Section 6 |
| | (E) | Answer not known | (2) | |
| | (1) | TIME WELL THE REPORT OF THE PARTY OF THE PAR | | |
| | | | | |
| 122. | DMI | stands for | 100 | |
| | (A) | Director of Market and Inspection | | |
| | V | Directorate of Marketing and Inspe | ection | |
| | (C) | Department of Marketing in India | | |
| | (D) | Director of Marketing Intelligence | | |
| | (E) | Answer not known | | |

| 123. | The rural development work at Shantiniketan by Rabindranath Tagore could not be extended to more villages because | | | | | | | | |
|------|---|---|-----|---|--|--|--|--|--|
| | (A) | Corruption in the organisation | | | | | | | |
| | (B) | Rabindranath Tagore left India | | | | | | | |
| | (0) | The Institute could not get much help from Government for research work | | | | | | | |
| | (D) | No support from local people | | | | | | | |
| | (E) | Answer not known | | | | | | | |
| | | | | | | | | | |
| 124. | - hel | | | Or. Spencer Hatch with the aim of "Self able to produce more honey through | | | | | |
| | 18 | Marthandom Project (| B) | Etawah Project | | | | | |
| | (C) | Sarvodaya Project (| D) | Nilokheri Project | | | | | |
| | (E) | Answer not known | | | | | | | |
| | | | | | | | | | |
| 125. | The C | Gurgaon project in Punjab was initiate | d b | y | | | | | |
| | A | Mr. F.L. Brayne (| B) | Sir Daniel Hamilton | | | | | |
| | (C) | Dr. Spencer Hatch | D) | None of the above | | | | | |
| | (E) | Answer not known | | | | | | | |
| | | | | | | | | | |
| 126. | | rural development programme launc | hed | with the objective of providing road | | | | | |
| | (A) Rashtriya Sam Vikas Yojana | | | | | | | | |
| | (B) Sampoorna Gramin Rozgar Yojana | | | | | | | | |
| | 45 | Pradhan Mantri Gram Sadak Yojana | | | | | | | |
| | (D) | Samagra Awaas Yojana | | | | | | | |
| | (E) | Answer not known | | | | | | | |
| | | | | | | | | | |

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| 127. | | er the international Trade statistics of UNO the share of India in the value of |
|------|----------|---|
| | | world exports of agricultural and allied products has decreased from 1.8% in to ——————————————————————————————————— |
| | (A) | 1.0% |
| | (B) | 1.3% |
| | (C) | 0.9 % |
| | 6 | 1.6% |
| | (E) | Answer not known |
| | | |
| | | |
| 128. | The year | United Nations General Assembly (UNGA) declared 2023 as the international of |
| | (A) | Pulses |
| • | (B) | Oil seeds |
| | 4 | Millets |
| | (D) | Cereals |
| | (E) | Answer not known |
| | | |
| | | |
| 129. | comm | was conferred — times with Krishi Karman award in 7 years for nendable performance in increasing production and productivity of various |
| | | ultural crops. |
| | (A) | 4 times |
| | (0) | 5 times |
| | (C) | 6 times |
| | (D) | 2 times |
| | (E) | Answer not known |

| 130. | Tam | il Nadu with 6 percent of population in the country is endowed with only |
|------|----------|--|
| | - | of the water resources of India. |
| | (A) | 3.5 % |
| | P | 3.0 % |
| | (C) | 4.0 % |
| | (D) | 2.75 % |
| | (E) | Answer not known |
| | | |
| | | |
| 131. | The | National Gross Domestic Product (GDP) of Indian Agriculture contributes to |
| | B | 25% |
| | (B) | 35% |
| | (C) | 52% |
| | (D) | 53% |
| | (E) | Answer not known |
| | | |
| | | |
| 132. | Cent | ral Rice Research Institute is located in which of the following states? |
| | (A) | New Delhi |
| | (B) | Punjab |
| | 1 | Odisha |
| | (D) | Tamil Nadu |
| | (E) | Answer not known |

| | (A) | 70:35:35 | 5 | 80:40:40 | | |
|------|------|---|----------|---------------------------|-----------------|----------|
| | (C) | 60:30:30 | (D) | 100:50:50 | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| | | | | | | |
| 134. | The | seed rate for long duration rice v | arieties | is — | - kg/ha. | |
| | (A) | 30 | (B) | 40 | | |
| | (C) | 60 | (D) | 75 | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| | | | | | | |
| 135. | The | dry seeding of rice followed by s | suppleme | ntal irrigation | during peak ve | getative |
| | | reproductive phases is called as | | | | |
| | (A) | Rain fed rice | (B) | Wet seeded ri | ce | |
| | 45 | Semi-dry rice | (D) | Upland rice | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| | | | | | | |
| 136. | The | spacing requirement for short | duration | n rice variety | is — | - under |
| | medi | um and low fertility soils in Tam | il Nadu. | | | |
| | (A) | $30 \times 10 \text{ cm}$ | (B) | $20 \times 10 \text{ cm}$ | | |
| | 10 | 15 × 10 cm | (D) | $20 \times 20 \text{ cm}$ | | |
| | (E) | Answer not known | | | | |
| | . 1 | | | | | |
| | | 6 - *: | | | | |
| 137. | | r application of the following in ring stage | mproves | the grain yie | ld in blackgram | during |
| | (A) | 1% Urea | (B) | Salisylic acid | | |
| | 4 | Pulse Wonder (TNAU) | (D) | 1% KCl | | |
| | (E) | Answer not known | | | | |
| | | | | | | |

133.

Fertilizer schedule for pearlmillet hybrid

| 138. | 138. What is the cation exchange capacity of numus: | | | | | |
|------|---|---|------|-------|--|--|
| | (A) $2-15 \text{ C mol (p+) kg}^{-1}$ | | | | | |
| | 250 – 1500 C mol (p+) kg ⁻¹ | | | | | |
| | (C) | $25-150~{\rm C~mol~(p^+)~kg^{-1}}$ | | | | |
| • | (D) | 0-2 C mol (p+) kg-1 | | | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| 139. | Best | suitable soil structure for agriculture | e is | | | |
| | 1 | | | D . | | |
| • | (A) | Crumb | (B) | Prism | | |
| | (C) | Columnar | (D) | Platy | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| 140. | Red s | soil is generally poor in | | • | | |
| | | | , r | | | |
| | (A) | Aluminium | | | | |
| | (3) | Nitrogen, Phosphorous and Humus | 3 | 1. | | |
| | (C) | Nitrogen and Potassium | | | | |
| | (D) | Iron | | | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| | • | | | | | |
| 141. | Nitro | gen content of Ammonium Sulphate | is | | | |
| | 1 | 20.6% | (B) | 24% | | |
| | (C) | 26% | (D) | 18% | | |

(E)

Answer not known

| | (D) | Zn mobilisation | | | | | | | * |
|------|------|-------------------------|------------|---------------|-------------|-------------|--------|-----------|------|
| | (E) | Answer not known | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 143. | Whic | ch one of the following | Azolla s | species tolei | ant to high | temperatu | ire an | d salinit | y |
| | (A) | A. Nilotica | | (B) | A. Folicule | oides | | | |
| | 4 | A. Microphylla | | (D) | A. Mexica | na | | | |
| | (E) | Answer not known | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 144. | The | pH range for the b | iofertiliz | ers product | ion as spe | cified by I | Bureau | of Ind | lian |
| | Stan | dard (BIS) should be | | | | | | | |
| | (A) | 4.50 to 5.50 | | (B) | 5.50 to 6.5 | 50 | | | |
| | 6 | 6.50 to 7.50 | | (D) | 7.50 to 8.5 | 60 | | | |
| | (E) | Answer not known | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 145. | The | Blue-Green Algae | (BGA) | inoculum | minimum | required | per | hectare | is |
| | | kg. | | | | | | | |
| | (A) | 5 | | (B) | 25 | | | | |
| | (C) | 15 | | 6 | 10 | | | | |

The type of activity of Bacillus Megaterium bioinoculant in soil is

PO₄ solubilisation

Zn solubilisation

PO₄ mobilisation

Answer not known

(E)

142.

(B)

(C)

| 146. | In w | hich of the following crop staggering | is no | t required for hybrid seed production? | | | | | | |
|------|-------|--|--------|--|--|--|--|--|--|--|
| | (A) | Rice . | (B) | Maize | | | | | | |
| | 4 | Tomato | (D) | Sorghum | | | | | | |
| | (E) | Answer not known | | | | | | | | |
| 147. | Whic | ch one of the following is incorrect | | | | | | | | |
| | (A) | (A) Haploids carry two sets of identical chromosomes | | | | | | | | |
| | 405 | Doubled haploids are 100% hetero | zygou | ıs | | | | | | |
| | (C) | Haploids can be generated from po | ollen | | | | | | | |
| | (D) | Haploids can be generated from ov | rules | | | | | | | |
| | (E) | Answer not known | | | | | | | | |
| | | | | | | | | | | |
| 148. | | is an indication which ide | ntify | a good as originating from a particula | | | | | | |
| | regio | | | | | | | | | |
| | (A) | GATT | 43) | GI | | | | | | |
| | (C) | IPR | (D) | CBD | | | | | | |
| | (E) | Answer not known | | | | | | | | |
| 149. | The v | The wild progenitor of pigeonpea is | | | | | | | | |
| | (A) | Cajanus Cinereus | S | Cajanus Cajanifolius | | | | | | |
| | (C) | Cajanus Albicans | (D) | Cajanus Elongatus | | | | | | |
| • | (E) | Answer not known | | | | | | | | |
| | | | | | | | | | | |
| 150. | | xample for monoecious nature is | | | | | | | | |
| | (A) | Rice | (B) | Groundnut | | | | | | |
| | 4 | Castor | (D) | Cotton | | | | | | |
| | (E) . | Answer not known | | | | | | | | |
| 151. | The h | naploid chromosome complement of a | a spec | ries is represented by | | | | | | |
| | (A) | n | (B) | x | | | | | | |
| * | (C) | 2n | (D) | 2x | | | | | | |
| | (E) | Answer not known | | | | | | | | |
| | | HARMON TO THE RESERVE OF THE STATE OF THE ST | | | | | | | | |

152. A long day biennial crop — requires two season to produce sew.

(A) Cluster bean (B) Jute

- (C) Karunkani Cotton Sugar beat
- (E) Answer not known

153. Seed yield of irrigated Italian millet is — qtls/ha.

(A) 5 - 10 kg/ha

10-16 kg/ha

(C) 15 - 20 kg/ha

(D) 25 - 50 kg/ha

(E) Answer not known

154. Number of field inspection for self pollinated crops are

(A) 1

(B) 3

2

(D) 6

(E) Answer not known

155. As per Indian Minimum Seed Certification Standard (IMSCS), minimum physical purity required for certified seed class of Bhendi (or) okra? is

35

(A) 96%

(B) 97%

(C) 98%

99%

(E) Answer not known

156. Expand IMSCS

- (A) Indian Maximum Seed Certification Standards
- Indian Minimum Seed Certification Standards
- (C) International Maximum Seed Certification Standards
- (D) International Minimum Seed Certification Standards
- (E) Answer not known

| 157. | Base | ed on mode of action, activated c | lay exerts | what type of effect? |
|------|-------|-------------------------------------|-----------------|------------------------------------|
| | (A) | Protoplasmic diffusion | | |
| | (B) | Nerve poison | | |
| | 1 | Physical effect | | |
| | (D) | Chitin inhibition | | |
| | (E) | Answer not known | - No. | |
| 158. | Whi | ch of the following chemical is us | sed in bird | d scarer to produce acetylene gas? |
| | (A) | Calcium carbonate | (B) | Calcium hydroxide |
| | (C) | Calcium oxide | S | Calcium carbide |
| | (E) | Answer not known | | |
| | | | | |
| 159. | Activ | vated kaolinate clay is used to m | anage | |
| | (A) | Subteranion pests | (B) | Leaf feeders |
| | 40 | Storage pests | (D) | Stem borers |
| | (E) | Answer not known | | |
| 160. | The | tip clipping of infested seedling t | o managa | atom homou in vice is a |
| 100. | | Mechanical control | o manage (B) | Physical control |
| | (C) | Cultural control | (D) | Biological control |
| | (E) | Answer not known | (D) | Diological control |
| | | | • | |
| 161. | False | e root galls are the nematode syr | nptoms pi | roduced on tomato roots by |
| | (A) | Meloidogyne incognita | (B) | <u>Ditylenchus</u> radicicola |
| | (0) | Nacobbus batatiformis | (D) | Xiphinema diversicaudatum |
| | (E) | Answer not known | | |

- 162. Choose the correct one
 - (A) $MR = AR\left(\frac{l}{l+1}\right)$

(B) $AR = MR\left(\frac{l}{l+1}\right)$

 $MR = AR\left(\frac{l-1}{l}\right)$

(D) $AR = MR\left(\frac{l+1}{l}\right)$

- (E) Answer not known
- 163. A situation when all possible outcomes are known with probability is called as
 - (A) Risks

(B) Uncertainty

(C) Probability

(D) Variability

- (E) Answer not known
- 164. Balance sheet is otherwise known as
 - Network statement

(B) Profit and loss statement

(C) Income statement

(D) Budget Report

- (E) Answer not known
- 165. Imputed value of family labour is included in the
 - (A) Cost A₁

(B) Cost A2

(C) Cost B

Cost C

- (E) Answer not known
- 166. Iso revenue line represents the
 - Ratio of prices of two competing products
 - (B) Ratio of prices of two competing factors
 - (C) Ratio of prices of inputs and outputs
 - (D) Ratio of prices of factors and products
 - (E) Answer not known

| 167. | The apex body in Co-operative marketing is | | | | | | | |
|------|--|--|------------|----------------------|--|--|--|--|
| | (A) | MARKFED | 1 | NAFED | | | | |
| | (C) | NCDC | (D) | APC | | | | |
| | (E) | Answer not known | | | | | | |
| 168. | C | | 41. | | | | | |
| 100. | | Commodity boards function under the purview of | | | | | | |
| | (A) | Ministry of Agriculture, Gov | | | | | | |
| | (B) | | | | | | | |
| | | (C) Ministry of Finance, Govt. of India | | | | | | |
| | | Ministry of Commerce, Govt | of India | | | | | |
| | (E) | Answer not known | | | | | | |
| | | | 1 1 | | | | | |
| 169. | Central AGMARK Lab is located at | | | | | | | |
| | S | Nagpur | | | | | | |
| | (B) | Bhopal | | | | | | |
| | (C) | Delhi | | | | | | |
| | (D) | Chennai | | | | | | |
| | (E) | Answer not known | | | | | | |
| | | | | | | | | |
| - | | | | | | | | |
| 170. | Following is the market, Which is classified on the basis of degree of competition | | | | | | | |
| | (A) | Commodity markets | (B) | Capital markets | | | | |
| | (0) | Monopoly markets | (D) | Spot / cash markets | | | | |
| | (E) | Answer not known | | | | | | |
| 171. | Whic | h of the following is not the su | b-function | of buying? | | | | |
| | (A) | Planning the purchase | (B) | Contractual function | | | | |
| | 4 | Demand creation | (D) | Negotiation | | | | |
| | (E) | Answer not known | . (2) | | | | | |

| 172. | The | The stages in "Innovation - Decision" process according to Rogers is | | | | | |
|------|--|--|-------|--|--|--|--|
| | (A) | Awareness, Interest, Evaluation, Trial, Adoption | | | | | |
| | 05 | Knowledge, Pesuation, Decision, Confirmation | | | | | |
| | (C) | Need, Awareness, Interest, Deliberation, Trial and Adoption | | | | | |
| | (D) | Attention, Interest desire, Conviction, Action and Satisfaction | | | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| | | | | | | | |
| 173. | The c | degree to which an innovation is per | ceive | d as better than the idea it super seeds | | | |
| | (A) | Compatibility | (B) | Complexity | | | |
| | 9 | Relative Advantage | (D) | Observability | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| | | | | | | | |
| 174. | The | degree to which an innovation is | perc | eived as consistent with the existing | | | |
| | values, part experiences and needs of potential adopters | | | | | | |
| | 48 | Compatibility | (B) | Trialability | | | |
| | (C) | Complexity | (D) | Observability | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| | | | | | | | |
| 175. | It is | a group of people that primarily | inter | act via communication media such as | | | |
| | letter | s, telephone, email or usenet rather | than | face to face | | | |
| | (A) | Community | (B) | Society | | | |
| | 48 | Virtual community | (D) | Primary group | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| | | | | | | | |
| 176. | ARIS | was initiated in the year | | | | | |
| | (A) | 2000 | (B) | 2020 | | | |
| | 4 | 1995 | (D) | 1999 | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |

39

| 177. | Raini | fed area in India presently constitute about — | - % of the not cultivated | | | | |
|------|---|--|---------------------------|--|--|--|--|
| | area. | | | | | | |
| | (A)_ | 30% | | | | | |
| | S. | 65% | | | | | |
| | (C) | 75% | | | | | |
| | (D) | 90% | | | | | |
| | (E) | Answer not known | | | | | |
| | (_) | | | | | | |
| | | | | | | | |
| 150 | m | the sets toward fined by the Planning | Commission during 11th | | | | |
| 178. | | agriculture growth rate target fixed by the Planning of India is | Commission during 11 | | | | |
| | (A) | 9.0 percent | | | | | |
| | | 4.0 percent | | | | | |
| | (0) | | | | | | |
| | (C) | < 3.0 percent | | | | | |
| | (D) | > 5.0 percent | | | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| | | | | | | | |
| 179. | Most of the research work on alley cropping in India concentrates on ——— in | | | | | | |
| | semi | i – arid regions. | | | | | |
| | (A) | Gliricidia Sepium | | | | | |
| . " | 4 | Leucaena leucocephala | | | | | |
| | (C) | Cajanus Cajan | | | | | |
| | (D) | Morus Alba | | | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| | | | | | | | |

| 180. | Cent | Central Institute of Cotton Research is situated in | | | | | |
|------|--|---|----------|--------------------|--|--|--|
| | S | Nagpur | (B) | Coimbatore | | | |
| | (C) | Kovilpatti | (D) | Ludhiana | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| | | | | | | | |
| 181. | | High soil temperature suppresses the weed germination. The heating process is | | | | | |
| | (A) | Heat Solarization | | Soil Solarization | | | |
| | (C) | Weed Solarization | (D) | Strip Solarization | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| 182. | Mechanical manipulation of the soil with tools to provide necessary soil condition favourable for the growth of crops are found as | | | | | | |
| | (A) | Ploughing | (B) | Puddling | | | |
| | (C) | Tilth | 6 | Tillage | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| 183. | The average conditions of weather for a month, season or year are denoted as | | | | | | |
| | (A) | Weather map | 45 | Climatic map | | | |
| | (C) | Physics of atmosphere | (D) | Atmospheric map | | | |
| | (E) | Answer not known | | | | | |
| * | | | | | | | |
| 184. | The N | Normal lapse rate is ———— | °C per K | m. | | | |
| | (A) | 4.5 °C | | 5.5 °C | | | |
| | 8 | 6.5 °C | (D) | 7.5 °C | | | |
| | (E) | Answer not known | \/ | | | | |
| | | | | | | | |

| 185. | The s | kg/ha. | | | | | |
|------|--|---|--------|---------------------|--|--|--|
| | 1 | 10. | (B) | 25 | | | |
| | (C) | 20 | (D) | 15 | | | |
| | (E) Answer not known | | | | | | |
| 186. | | Crop growth and development are primarily governed by following environmental factors | | | | | |
| | (A) | Soil | | | | | |
| | (B) | Rainfall | • | | | | |
| | (C) | Temperature | | 200 | | | |
| | 0 | All the above | | | | | |
| | (E) | Answer not known | | | | | |
| 187. | The c | criteria used for the classification of | irriga | tion water includes | | | |
| | (A) | Element toxicity | (B) | Salinity | | | |
| | (C) | Sodicity/Alkalinity | 0 | All the above | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |
| 188. | Wate | Water use efficiency is more when | | | | | |
| | (1) | the crop yield is increased | | | | | |
| | (B) | evaporation loss is increased | | | | | |
| | (C) | transpiration loss is increased | | | | | |
| * | (D) | (D) evapo-transpiration loss is increased | | | | | |
| | (E) | Answer not known | | | | | |
| 189. | Adoption of new resource conserving technologies in Agriculture will have to | | | | | | |
| | produce more food while sustaining environmental quality | | | | | | |
| | (B) | produce more food alone | | | | | |
| | (C) | produce less food while sustaining environmental quality | | | | | |
| | (D) | environmental quality alone | | | | | |
| | (E) | Answer not known | | | | | |
| | | | | | | | |

χ

| 190. | The | size of the clay particle is | | | | |
|------|-------|--|----------|---------------------------------------|--|--|
| | (A) | < 0.02 mm | (B) | < 0.0002 mm | | |
| | 4 | <0.002 mm | (D) | < 0.2 mm | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| 191. | | is the structural comp | onent o | f Nitrogenase and Nitrate reductase | | |
| | enzy | | | | | |
| | 1/1) | Molybdenum | (B) | Zinc | | |
| | (C) | Iron | (D) | Copper | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| 192. | Soil | texture can be determined by | | | | |
| | (A) | Feel method | (B) | Hydrometer method | | |
| | (C) | International Pipette method | V | All the above methods | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| 193. | An o | open trench left in between two | adiace | nt strips of land after finishing the | | |
| | | ploughing is called as | | | | |
| | 1 | Dead furrow | (B) | Back furrow | | |
| | (C) | Head land | (D) | Furrow slice | | |
| 10 | (E) | Answer not known | | | | |
| | | | | | | |
| 194. | | mum temperature maintained for aroom) is | r paddy | straw mushroom cultivation (Oyster | | |
| | (A) | 10 − 15°C | (B) | 18 – 20°C | | |
| | (C) | 28 – 29°C | 0 | 30 – 35°C | | |
| | (E) | Answer not known | | | | |
| | | | | | | |
| 195. | In ho | oney bees, ———— enzyme co | nverts s | ucrose into dextrose and levulose. | | |
| | (A) | Nuclease | 0 | Invertase | | |
| | (C) | Amylase | (D) | Sucrase | | |
| | (E) | Answer not known | | | | |

| 196. | The system of sowing a second crop after the first crop has reached its maturity bubefore it is harvested is known as | | | | | | | |
|------|--|---|------------|-------------------------------|--|--|--|--|
| | (A) | Double cropping | (B) | Inter cropping | | | | |
| | (C) | Mixed cropping | S. | Relay cropping | | | | |
| | (E) | Answer not known | | | | | | |
| | | | | | | | | |
| 197. | | Cultivation of crop from regrowth after harvest is known as | | | | | | |
| | (A) | Multiple cropping | (B) | Mixed cropping | | | | |
| | (C) | Multi-tier cropping | | Ratooning | | | | |
| | (E) | Answer not known | | | | | | |
| 198. | Cwar | ii aa taa aa aa aa aa th | | of land in one ween is called | | | | |
| 190. | | ving two or more crops on th | | | | | | |
| | (A) | inter cropping | (B) | mixed cropping | | | | |
| | (C) | mono cropping | P) | multiple cropping | | | | |
| | (E) | Answer not known | | | | | | |
| 199. | The optimum age of seedling for transplanting long duration rice varieties is | | | | | | | |
| | (A) | 13 - 14 days | (B) | 18 – 21 days | | | | |
| | (C) | 25 – 30 days | B | 35 – 40 days | | | | |
| | (E) | Answer not known | | | | | | |
| | | | | | | | | |
| 200. | Trips for collection of cultivated farms like land races, open pollinated varieties wild forms and wild relatives of crop plants are | | | | | | | |
| | A | Exploration | (B) | Collection | | | | |
| | (C) | Evaluation | (D) | Conservation | | | | |
| | (E) | Answer not known | | | | | | |
| | | | | | | | | |

