

DO NOT OPEN THIS TEST BOOKLET TILL YOU ARE ASKED TO DO SO.

TR/IRGA/GS/2021

Test Booklet Series

**TEST BOOKLET
GENERAL ABILITY TEST**



(Signature of the Candidate)

(Invigilator's Signature)

Time Allowed – Three (3) hours

Maximum Marks – 180

INSTRUCTIONS

1. PLEASE CHECK THE TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE ON THE ANSWER SHEET BY BLACK BALL POINT PEN ONLY.
3. This Test Booklet contains 180 items (questions). Each question, has four responses (answers). You will select the responses which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the most appropriate. In any case, choose ONLY ONE response for each item.
4. You have to mark all your responses ONLY on the separate Answer Sheet provided. See directions in the Answer Sheet.
5. All items carry equal marks.
6. Before you proceed to mark on the Answer Sheet the responses to various items in the Test Booklet, you have to fill in some particulars on the Answer Sheet as per instruction sent to you with your Admission Certificate.
7. After you have completed filling in responses on the Answer Sheet and the Examination is completed, you should handover the Answer Sheet to the Invigilator only. You are permitted to take away the Test Booklet.
8. Sheets for rough work are appended on the Test Booklet at the end.
9. **Penalty for wrong answers :**
 - (a) There will be four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-fourth** of the marks assigned to that question will be deducted as penalty.
 - (b) If a candidate gives more than one answer, it will be treated as a **Wrong Answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (c) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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Four options are given against each of the following questions. Select the best/correct option from among the four options and encode on the Answer Sheet by using **Black Ball Point Pen** only as per example given below :

Example : The wheel in our National Flag has

- (A) 20 spokes (B) 24 spokes
(C) 30 spokes (D) 25 spokes

Answer :

A	☒	C	D
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PART – I

1. Synonym (Most nearest meaning) of ORATOR is
(A) Speaker (B) Reader
(C) Singer (D) Critic
2. Antonym (Most opposite meaning) of the word CELESTIAL is
(A) Heavenly (B) Divine
(C) Supernatural (D) Earthly
3. The correct verb form in this sentence is :
Neither Afzal nor his friends ——— present.
(A) was (B) were
(C) have (D) has
4. River Ganges is ——— largest river in India.
(A) an (B) a
(C) the (D) None of these

5. You must pay the fees ——— a week.
- (A) after (B) before
(C) within (D) by
6. "Rama comes to college regularly". It is
- (A) Simple present tense (B) Past tense
(C) Future tense (D) Continuous tense
7. "She will be coming to office very often". It is
- (A) Past tense (B) Future tense
(C) Future continuous tense (D) Present tense
8. Choose the correct sentence from the following
- (A) George ran faster than me.
(B) George ran faster than I.
(C) George ran faster than mine.
(D) George ran faster than myself.
9. Select the word you consider most appropriate for the blank space and indicate your response on the Answer Sheet accordingly :
- Many people today have fallen into utter confusion of values with the result that they cannot ——— the good from the bad.
- (A) divide (B) differentiate
(C) see (D) alter

10. The study of pronunciation of words is called

- (A) Orthoepy (B) Phonetics
(C) Voice (D) Speech

11. The following sentence has a word underlined. Read the sentence carefully and identify which part of speech the underlined word belongs to. Indicate your response on the answer sheet accordingly.

Hurrah ! What a scintillating beauty the landscape is !

- (A) Conjunction (B) Adjective
(C) Adverb (D) Interjection

12. Choose the correct sentence from the following :

- (A) They will come if you would invite them.
(B) They will come if you will invite them.
(C) They will come if you invite them.
(D) They will come if you had invited them.

13. Choose the correct option from below mentioned change in voice of the given sentence :

The nurse is looking after this little girl.

- (A) It is the nurse who is looking after this little girl.
(B) The little girl is being looked after by this nurse.
(C) This little girl is being looked after by this nurse.
(D) This little girl is looked after by the nurse.

PART – II

16. Who presented independent India's first-ever Budget ?
- (A) James Wilson (B) C Rajgopalachari
(C) Jawaharlal Nehru (D) Lord Mountbatten
17. The objective of 'Ladakh Ignited Minds Project' launched by Indian Army is
- (A) to promote peace in Ladakh region
(B) to combat insurgency in Ladakh
(C) to secure better future for the youth of Ladakh
(D) to guard Sino-Indian border
18. Which is the World's first Country to allow the production, sale and consumption of lab created meat ?
- (A) USA (B) Singapore
(C) Finland (D) Canada
19. Which State of India has no scheduled caste population ?
- (A) Manipur (B) Meghalaya
(C) Nagaland (D) Mizoram
20. 'Dustlik-II' is a field training military exercise held in March, 2021 between India and _____.
- (A) USA (B) Uzbekistan
(C) Russia (D) France

21. Which one is recognised as the State tree of Tripura ?
- (A) Banyan Tree (B) Agar Tree
(C) Sal Tree (D) Coconut Tree
22. Neermahal at Melaghar, Tripura was built by
- (A) Maharaja Bir Bikram Kishore Manikya
(B) Maharaja Kirit Bikram Kishore Manikya
(C) Maharaja Radha Kishore Manikya
(D) Maharaja Birendra Kishore Manikya
23. Smt. Pratima Bhowmik MP, West Tripura has been recently inducted as Minister of State in Central Cabinet. Her portfolio relates to the department of
- (A) Labour and Employment
(B) Social Justice and Empowerment
(C) Women and Child Development
(D) Youth affairs and Sports
24. Sangrai dance is associated with which tribe/sub-tribe of Tripura ?
- (A) Halam (B) Mog
(C) Lushai (D) Chakma
25. "e-SANTA" is an electronic market place for ———.
- (A) Aqua farmers (B) Textile traders
(C) Agricultural farmers (D) Pharmaceuticals

26. How many tax slabs have been proposed in the new alternative scheme of Income tax announced in Union Budget 2020-21 ?
- (A) 5 (B) 6
(C) 7 (D) 8
27. Indian currency notes are printed in which place ?
- (A) New Delhi (B) Bombay
(C) Nasik (D) Calcutta
28. The AYUSH Ministry has launched 'HCCR' Portal recently. With which this portal is associated ?
- (A) Siddha (B) Ayurveda
(C) Unani (D) None of these
29. The new FDI limit in the Insurance Sector as per the Insurance (Amendment) Bill-2021 is ____ .
- (A) 54 per cent (B) 74 per cent
(C) 79 per cent (D) 60 per cent
30. "Switch Delhi" is the name of the campaign launched by Delhi Administration to promote ____ .
- (A) Electric vehicles (B) Greenery
(C) Women safety (D) Health insurance

31. India's first Agriculture University is established in which State ?
- (A) Jharkhand (B) Haryana
(C) Uttar Pradesh (D) Maharashtra
32. Which of the following Institute has recently developed genetically-modified cotton varieties ?
- (A) G. B. Pant University of Agriculture and Technology
(B) Punjab Agricultural University
(C) Tamil Nadu Agricultural University
(D) Indian Agricultural Research Institute, New Delhi
33. As per available statistics of Tripura Horticulture department identify the arrangement of crops in descending order of production in MT.
- (i) Pineapple (ii) Jack fruit
(iii) Mango (iv) Banana
- (A) (i) (ii) (iii) (iv) (B) (i) (ii) (iv) (iii)
(C) (ii) (i) (iii) (iv) (D) (ii) (iv) (i) (iii)
34. In Tripura the net cropped area as per 2018-19 Government of Tripura statistics is
- (A) 255548 ha (B) 225508 ha
(C) 185785 ha (D) None of these
35. Consumption of chemical fertilizer in kg/ha (NPK per/ha) in Tripura during 2018-19 is
- (A) 62 (B) 72
(C) 50 (D) 47

36. The first areca nut to get the Geographic Indications (GI) tag is the Sirsi Supari. In which State is this supari grown ?
- (A) Karnataka (B) Bihar
(C) Andhra Pradesh (D) Odisha
37. Agartala is situated at an altitude of
- (A) 13 m (B) 14 m
(C) 10 m (D) 18 m
38. Which of the following hybrids of paddy are not showing promising results in Tripura ?
- (A) VMR 2111 (B) Raj Laxmi
(C) PMB 71 (D) None of these
39. As per available statistics of Horticulture department of Tripura during 2019-20 identify correct order (ascending order) of area (per ha) for cultivation of following spice crops
- (i) Ginger (ii) Turmeric
(iii) Chilli (iv) Black pepper
- (A) (iv), (ii), (i), (iii) (B) (iv), (iii), (ii), (i)
(C) (iii), (ii), (i), (iv) (D) (i), (ii), (iii), (iv)
40. Which district among the following districts in Tripura has highest production of rubber during 2019-20 ?
- (A) South district (B) Sepahijala
(C) West district (D) Gomati

41. A standard soil texture triangle represents _____ soil textural classes reflecting specific percentages of sand, silt, or clay.
- (A) 36 (B) 24
(C) 12 (D) 30
42. A fertile soil must contain all the 3 major nutrients namely _____ for basic plant nutrition, in addition to 9 key micro nutrients.
- (A) Calcium, Nitrogen, Potassium
(B) Nitrogen, Iron, Phosphorus
(C) Nitrogen, Phosphorus, Potassium
(D) Potassium, Calcium, Sulphur
43. About half of the essential plant nutrients are macronutrients; among which _____ is foremost vital to form carbohydrates, proteins, nucleic acids and other compounds.
- (A) Nitrogen (B) Sulphur
(C) Carbon (D) Sodium
44. Main function of bio-fertilizer is
- (A) to increase chemical process
(B) to increase physiological process
(C) to increase biological process
(D) to increase photosynthesis process
45. Green manure plants used by farmers mainly belong to
- (A) Compositae (B) Jacobaea
(C) Solanaceae (D) None of these

46. The pair of highly wind erosion affected States in India is
- (A) MP and Maharashtra (B) Kerala and Tamilnadu
(C) Punjab and UP (D) Gujarat and Rajasthan
47. The historical Universal Soil Loss Equation (USLE) is often adopted to predict
- (A) Annual soil loss in tonnes/ha
(B) Event based soil erosion rates
(C) Sedimentograph
(D) Land degradation Index
48. _____ kind of permanent soil and water conservation structures are preferred when the purpose is to capture a part of runoff inside the stream (upstream side) for its use for lift irrigation or ground water recharging ; and at the same time passing other fraction of stream flows with safe velocities during peak flows.
- (A) Drop structures (B) Drop inlet structures
(C) Culverts (D) Gabion structures
49. Where was the Mitti Bachao (Save the soil) Movement started in India ?
- (A) Thane, Maharashtra (B) Mysore, Karnataka
(C) Darbhanga, Bihar (D) Hoshangabad, Madhya Pradesh
50. What was the full form for one of the famous program “ DPAP ” conducted for natural resource management by Ministry of Agriculture (Govt of India) ?
- (A) Draught Prone Area Programme
(B) Dry land Project for Andhra Pradesh
(C) Doubling Production from Agricultural Projects
(D) Dual Policy on Agricultural Productivity

51. ——— is a practice of growing strip of crops having poor potential for erosion control (e.g. root crop, cereals) alternated with strips of crops having good potentials for erosion control (fodder crops, grasses, close growing crops).
- (A) Strip cropping (B) Regular cropping
(C) Multiple cropping (D) None of these
52. The ——— with respect to a given outlet point; represents a geophysical area whose surface runoff passes out through the given outlet point only.
- (A) Watershed (B) Command
(C) Streams (D) Canopy cover
53. What is the order of agricultural waste management hierarchy, from most to least favoured ?
- (A) Prevention - Recycle - Reuse - Disposal
(B) Prevention - Reuse - Disposal - Recycle
(C) Prevention - Disposal - Reuse - Recycle
(D) Prevention - Reuse - Recycle - Disposal
54. The best combination for key earthen structures which may be used for controlling soil erosion inside of natural agricultural watersheds located in dry 'land areas are;
- (A) Contour bunds, farm ponds, and land smoothening/levelling
(B) Graded bunds, contour trenches, and terracing
(C) Bench terracing, bigger check dams, and ground water dykes
(D) Diversion bunds, deep reservoirs and bench terracing

55. Sprinkler irrigation system remains a better choice for irrigating areas that have
- (A) Undulating topography and lower evaporation rates
 - (B) Plane areas and high evaporation rates
 - (C) Low height crops and high wind velocities
 - (D) Very small size fields and unfertile soils
56. _____ is the fraction of water entering the soil that must pass through the root zone in order to prevent soil salinity from exceeding a specified value.
- (A) Leaching requirement
 - (B) Irrigation potential
 - (C) Irrigation cycle
 - (D) Perennial irrigation
57. In majority of cases for Indian conditions, water use efficiency and water application uniformity remains highest in which irrigation method ?
- (A) Border irrigation
 - (B) Flood irrigation
 - (C) Sprinkler irrigation
 - (D) Drip irrigation
58. The sodium hazard (Sodicity hazard) of irrigation water are often expressed through SAR. What shall be considered a safe SAR value for irrigation water being applied to crops ?
- (A) Less than 10
 - (B) 10–20
 - (C) 20–25
 - (D) More than 25
59. Among below given statements, only one statement is correct. Select the correct statement.
- (A) A contour is not an imaginary line.
 - (B) Elevation of each and every point on a contour line remains exactly same.
 - (C) Two contours can easily cross each other.
 - (D) All of the above statements are correct.

60. _____ is an ecological production management system that promotes and enhances biodiversity, biological cycles and soil biological activity.
- (A) Organic farming (B) Inorganic farming
(C) Dryland farming (D) Irrigated farming
61. International Irrigation Management Institute (IIMI) is located at _____.
- (A) Indonesia (B) Srilanka
(C) Peru (D) Mexico
62. Commercial hybrid rice seed production in India is mostly done through
- (A) One line system (B) Two line system
(C) Three line system (D) None of these
63. Nanoparticles are very commonly manufactured in the form of
- (A) Chlorides (B) Sulphates
(C) Oxides (D) Flourides
64. The statistical design used when fertility gradient of soil is in one direction is
- (A) CRD (B) Split
(C) Strip (D) RBD
65. After tillage operations the Bulk density of tilled soil as compared to untilled soil
- (A) is more (B) is less
(C) is unaltered (D) first decreases and then increases

66. Which is high sodium tolerant crop ?

- (A) Rice
- (B) Wheat
- (C) Barley
- (D) Cotton

67. The property that is not affected by the amount of organic matter in the soil is

- (A) Cation exchange capacity
- (B) Biological activity
- (C) Soil texture
- (D) Soil structure

68. The herbicide that is selective to broad leaved weeds is

- (A) Glyphosate
- (B) Paraquat
- (C) Fenoxaprop P-ethyl
- (D) 2, 4-D

69. The loss of herbicide after application to soil is due to

- (A) Microbial degradation
- (B) Leaching
- (C) Volatilization
- (D) All of these

70. Change in the base sequence within a gene is called

- (A) Mutation
- (B) Cloning
- (C) Fusion
- (D) Breeding

71. Father of organic farming is

- (A) Peter Dokuchev
- (B) Stevenson
- (C) Sorenson
- (D) Sir Albert Howard

72. Most common invasive weed in Tripura is

- (A) Parthenium spp
- (B) Tribulus spp
- (C) Eichhornia spp
- (D) Mimosa spp

73. If 100 cm^3 of soil has an oven dry weight of 135 grams, what is its bulk density ?

- (A) 1.35 g/cm^3
- (B) $0.75 \text{ cm}^2/\text{g}$
- (C) $13,500 \text{ g/cm}^3$
- (D) 1.53 g/cm^3

74. An example of beast fibre is

- (A) Cotton
- (B) Kapok
- (C) Sisal
- (D) Jute

75. Growing of coconut, black pepper and ginger simultaneously in the same field is called

- (A) Alley cropping
- (B) Multistoried cropping
- (C) Relay cropping
- (D) Multiple cropping

76. Maximum, minimum and optimum temperatures are collectively termed as

- (A) Base
- (B) Cumulative
- (C) Cardinal
- (D) Quotient

77. How many number of plants/ha, if a crop is sown at $45 \text{ cm} \times 15 \text{ cm}$?

- (A) 148148
- (B) 83333
- (C) 122122
- (D) 111111

78. Agronomic efficiency is expressed as

- (A) Kg/kg
- (B) Kg/day
- (C) Kg/ha
- (D) None of these

79. The C:N ratio of humus is

- (A) 20:1
- (B) 20:3
- (C) 10:2
- (D) 10:1

80. The micronutrient that is most crucial for Nitrogen metabolism in pulses is

- (A) Iron
- (B) Zinc
- (C) Copper
- (D) Molybdenum

81. Percentage share of horticulture output in Agriculture is

- (A) 33%
- (B) 25%
- (C) 28%
- (D) None of these

82. Which hormone can be used to break dormancy of seed ?

- (A) GA_3
- (B) Ethrel
- (C) BA
- (D) All of these

83. For long distance transportation musk melon should be harvested at _____ stage.

- (A) Half slip
- (B) Full slip
- (C) Hard slip
- (D) Full ripe

84. In pomegranate fruit cracking is due to deficiency of ____.
- (A) Boron (B) Iron
(C) Calcium (D) Copper
85. Dogridge is a salt tolerant rootstock for
- (A) Citrus (B) Mango
(C) Grape (D) Plum
86. In which of the following flower crop “bending” is followed ?
- (A) Carnation (B) Lilium
(C) Rose (D) Marigold
87. Plants which supply pollen for effective fruit set of a fruit tree are called
- (A) Pollinators (B) Male sterile
(C) Haploids (D) Pollenizers
88. Which of the following vegetable is most tolerant to salt ?
- (A) Tomato (B) Pea
(C) Potato (D) Chilli
89. Which hormone is used to enhance number of female flowers in cucurbits ?
- (A) NAA (B) Ethrel
(C) GA₃ (D) IAA

90. Asfoetida (Hing) is extracted from which part of the plant ?
- (A) Flowers (B) Roots
(C) Leaves (D) All of these
91. Among the following which condition causes self pollination ?
- (A) Cleistogamy (B) Homogamy
(C) Monoecy (D) All of these
92. In Gerbera, removal of inferior quality flowers at the initial stage is called
- (A) Disbudding (B) Bending
(C) Trashing (D) Training
93. Golden flake is a disorder of
- (A) Capsicum (B) Potato
(C) Tomato (D) Pea
94. Citronella is commercially propagated through
- (A) Seeds (B) Rooted slips
(C) Grafts (D) Layers
95. Rose is commercially propagated by
- (A) 'T' budding (B) Patch budding
(C) Ring budding (D) Forkert budding

96. Stem bleeding is a disorder of
- (A) Areca nut (B) Cashew
(C) Oil palm (D) Coconut
97. Periwinkle is cultivated as
- (A) Avenue plant (B) Medicinal plant
(C) Spice crop (D) Aromatic plant
98. Percentage of shade required for growing anthurium in summer is ____.
- (A) 50 (B) 60
(C) 70 (D) 80
99. Blue colour rose in Japan has been developed through
- (A) Mutation (B) Hybridization
(C) Polyploidy (D) Genetic engineering
100. Pinching is common practices in
- (A) Carnation (B) Gladiolus
(C) Rose (D) China aster
101. Pusa Meghdoot is a first hybrid of
- (A) Pointed gourd (B) Cucumber
(C) Bitter gourd (D) Bottle gourd

102. Thickness of UV stabilized polyethylene used as a cladding material in greenhouse is
- (A) 100 micron (B) 200 micron
(C) 250 micron (D) 300 micron
103. Which of the following mineral is responsible for firmness of fruit ?
- (A) Potassium (B) Calcium
(C) Phosphorous (D) Zinc
104. Hollow heart is a disorder of
- (A) Tomato (B) Cabbage
(C) Potato (D) Carrot
105. The concentration of _____ gas above 1% delays ripening of fruits.
- (A) CO₂ (B) O₂
(C) H₂ (D) N₂
106. The enzyme which is involved in the softening of the fruit texture during ripening is
- (A) Kinase (B) Amylase
(C) Hydrolases (D) Pectinase
107. World Vegetable Centre previously known as Asian Vegetable Research and Development Centre is located at
- (A) China (B) Brazil
(C) South Korea (D) Taiwan

108. Ethylene is often referred as _____ hormone.

- (A) Ripening
- (B) Dwarfing
- (C) Rooting
- (D) Flowering

109. Reduction or elimination of dormancy in crop plant is due to

- (A) Domestication
- (B) Hybridization
- (C) Mutation
- (D) Acclimatization

110. Which is the yellow coloured variety of capsicum ?

- (A) Indra
- (B) California wonder
- (C) Bharat
- (D) Orobelle

111. Test cross ratio for the monohybrid is

- (A) 1:7
- (B) 1:1
- (C) 9:7
- (D) 3:1

112. National Research Centre on Seed Spice is located at

- (A) Kolkata
- (B) Chennai
- (C) Calicut
- (D) Ajmer

113. The situation in which the phenotype of heterozygotes falls between those of homozygotes for two concerned alleles is called

- (A) Incomplete dominance
- (B) Complete dominance
- (C) Over dominance
- (D) Pseudo dominance

114. The probability that two genes at any locus in an individual are identical by descent refers to
- (A) Selection coefficient (B) Inbreeding coefficient
(C) Regression coefficient (D) Correlation coefficient
115. The F_1 progeny of a cross is
- (A) Homozygous and Homogeneous
(B) Homozygous and Heterogeneous
(C) Heterozygous and Heterogeneous
(D) Heterozygous and Homogeneous
116. Calvin cycle is predominantly found in
- (A) Rice (B) Maize
(C) Garlic (D) Pineapple
117. Dee-geo-woo-gen is a rice variety belonging to the group
- (A) Indica (B) Japonica
(C) Javanica (D) African
118. A triple monosomic can be represented by
- (A) $2n+1+1+1$ (B) $2n+3$
(C) $2n-1-1-1$ (D) $2n-3$
119. Somatic hybridisation is achieved through
- (A) Grafting (B) Conjugation
(C) Protoplast fusion (D) Recombinant DNA Technology

120. The oxidation of one molecule of NADH in mitochondria results in formation of
- (A) Two molecules of ATP
 - (B) Five molecules of ATP
 - (C) Three molecules of ATP
 - (D) One molecule of ATP
121. Oxidative phosphorylation occurs at
- (A) Inner mitochondrial membrane
 - (B) Mitochondrial matrix
 - (C) Inner chloroplast membrane
 - (D) Matrix of chloroplast
122. An individual has four heterozygous loci. What will be the total number of different genotypes produced in F_2 ?
- (A) 64
 - (B) 16
 - (C) 81
 - (D) 27
123. An example of C_4 crop is
- (A) Rice
 - (B) Groundnut
 - (C) Sweet potato
 - (D) Sorghum
124. The breeding method useful in purification of existing varieties is
- (A) Pedigree method
 - (B) Bulk method
 - (C) Mass selection
 - (D) Back cross method
125. Deoxyribose sugar and bases in DNA are joined through
- (A) Phosphodiester bond
 - (B) Salt bridge
 - (C) Glycosidic bond
 - (D) Peptide bond

126. In hybrid seed production male sterile lines are maintained by crossing with

- (A) A line
- (B) B line
- (C) R line
- (D) Pureline

127. Southern corn leaf blight is associated with which of the following cytoplasms of maize ?

- (A) Cms-T
- (B) Cms-S
- (C) Cms-C
- (D) N cytoplasm

128. The colour of breeder seed tag is

- (A) Golden yellow
- (B) Blue
- (C) White
- (D) Red

129. The male sterility system which is widely used in hybrid seed production of crop plants is

- (A) GMS
- (B) TGMS
- (C) CGMS
- (D) CMS

130. Koelreuter carried out hybridization experiments in

- (A) Carnation
- (B) Maize
- (C) Tobacco
- (D) Pea

131. Where is the headquarters of Directorate of Plant Protection, Quarantine and Storage located ?

- (A) Hyderabad
- (B) Ludhiana
- (C) New Delhi
- (D) Faridabad.

132. Which is the egg parasitoid of sugarcane pyrrilla ?

- (A) *Epiricania melanoleuca* (B) *Tetrastichus pyrrillae*
(C) *Fulgoraecia melanoleuca* (D) *Trichogramma chilonis*

133. Which type of lifecycle is observed in thrips ?

- (A) Complete lifecycle (B) Incomplete lifecycle
(C) Intermediate lifecycle (D) None of these

134. In the attack of which class of nematodes, the presence of white to brown cysts projecting on the root surface is a characteristic symptom ?

- (A) Longidorus (B) Globodera
(C) Meloidogijne (D) Trichodorus

135. Which is the trade name of flufenoxuron insecticide ?

- (A) Cascade (B) Sivanto
(C) Coragen (D) Benevia

136. Protein content in lentils is

- (A) 18% (B) 25%
(C) 16% (D) 20%

137. Insect body is divided into how many regions ?

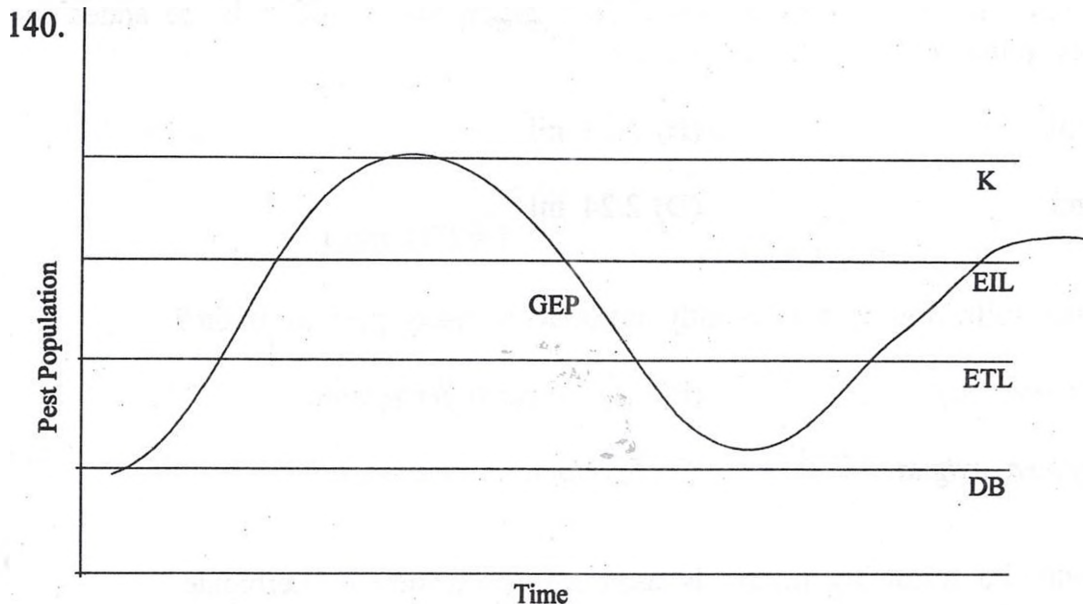
- (A) Four (B) Three
(C) Two (D) None of these

138. *Goniozus nephantidis* is parasitoid of which insect pest ?

- (A) Red palm weevil
- (B) Brinjal shoot and fruit borer
- (C) Coconut black headed caterpillar
- (D) Pink bollworm

139. Which among the following is monophagous insect pest ?

- (A) Pink bollworm
- (B) Whitegrub
- (C) Pink stemborer
- (D) Both (A) and (C)



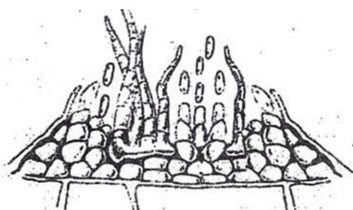
Where, GEP=General Equilibrium Population; K=Carrying capacity of ecosystem for particular pest; EIL=Economic Injury Level; ETL=Economic Threshold Level; DB=Damage Boundary. In above circumstances and annotations, which of the following describes 'Pest Residue' ?

- (A) DB+ETL+EIL
- (B) DB+ETL+EIL+average of GEP
- (C) DB+ETL
- (D) DB+average of GEP

141. What is/are the mode(s) of action of trichomes for insect resistance in plants ?
- (A) Bleeding (B) Restriction in oviposition
(C) Restriction in locomotion (D) All of these
142. Inverted boat shaped leaves in chilli is a characteristic symptom of which pest ?
- (A) Thrips (B) Aphids
(C) Mite (D) All of these
143. One farmer wants to control *Helicoverpa armigera* in chilli grown on 3 ha of land. He has been recommended to spray chlorantraniliprole 18.5 SC twice with dosage of 30 g a.i/ha with 1500 litres of water. How much insecticide is to be added in one spraying pump of 10 litres of water ?
- (A) 3.24 ml (B) 5.24 ml
(C) 4.24 ml (D) 2.24 ml
144. Which of the following is the recently introduced insect pest in India ?
- (A) *Spodoptera latifascia* (B) *Spodoptera frugiperda*
(C) *Spodoptera exigua* (D) *Spodoptera ornithogalli*
145. Which among the following nozzle is used for application of herbicide ?
- (A) Flat fan nozzle (B) Triple action nozzle
(C) Flood jet nozzle (D) All of these
146. Select correct formula of urea
- (A) $\text{H}_2\text{NCO}_2\text{NH}_2$ (B) HNCONH
(C) H_2NCONH_2 (D) H_4NCONH_4

147. "The Great Hunger" also called the Irish Potato Famine occurred due to which disease in potato ?

- (A) Late blight, in 1845-49
- (B) Early blight, in 1745-49
- (C) Early blight, in 1845-49
- (D) Late blight, in 1745-49



148.

What is the structure called ?

- (A) Pycnidium
- (B) Sclerotium
- (C) Acervulus
- (D) Sorus

149. What is the full form ICTV ?

- (A) International Code for Taxonomy for Viruses
- (B) International Committee on Taxonomy of Viruses
- (C) International Committee for Taxonomy of Viruses
- (D) International Code on Taxonomy of Viruses

150. Buttoning is the problem in which of the following crops ?

- (A) Cauliflower
- (B) Okra
- (C) Chillies
- (D) Melon

151. Which one is the bacterial disease of wheat ?

- (A) Common smut
- (B) Pink seed
- (C) Wheat yellow mosaic
- (D) Powdery mildew

152. Which asexual fruiting body is produced by *Helminthosporium* ?

- (A) Synnema
- (B) Pycnidium
- (C) Sporodochium
- (D) All of these

153. Which symptoms are produced by fungi in plants ?

- (A) Mosaic
- (B) Canker
- (C) Scab
- (D) None of these

154. Production of hypertrophied tissues looking like ear lobe arising from the veins on under surface of leaves are called ?

- (A) Puckering
- (B) Witches' broom
- (C) Shoe string
- (D) Enations

155. Which is the alternate host of brown rust of wheat ?

- (A) Brinjal
- (B) *Berberis* sp
- (C) *Thalictrum* sp
- (D) *Brassica* sp

156. Bunchy top disease of banana is transmitted by

- (A) *Myzus persicae*
- (B) *Pentalonia nigronervosa*
- (C) *Aphis nerii*
- (D) *Lipaphis erysimi*

157. Sesame phyllody is caused by

- (A) Mycoplasma Like Organisms (MLO)
- (B) Virus
- (C) Phytoplasma
- (D) Bacteria

158. *Ramularia areola* produce which type of disease in cotton crop ?

- (A) Powdery mildew
- (B) Grey mildew
- (C) Brown mildew
- (D) Downy mildew

159. Pineapple black rot disease is

- (A) Viral disease
- (B) Fungal disease
- (C) Bacterial disease
- (D) None of these

160. Leaf crinkle disease of black gram is transmitted by

- (A) Whitefly
- (B) Sap
- (C) Seed
- (D) All of these

161. The most commonly used method of depreciation is

- (A) Annual revaluation method
- (B) Diminishing Balance method
- (C) Straight line method
- (D) Sum of years digit method

162. In a classical production function, the elasticity of production is greater than one, where

- (A) The point of equality between APP and MPP
- (B) Up to the point where APP is maximum
- (C) The point where TPP is maximum
- (D) The point where MPP is maximum

163. The type of farming that reduces risk is known as _____.

- (A) Specialized farming
- (B) Mixed farming
- (C) Diversified farming
- (D) Ranching farming

164. Pepsico Company engaging in tomato procurement directly from farmers is an example of

- (A) Horizontal integration
- (B) Vertical integration
- (C) Conglomeration
- (D) Forward integration

165. Preparing farm budget in advance is known as

- (A) Farm planning
- (B) Advanced estimates
- (C) Farm budgeting
- (D) Partial budgeting

166. International Food Safety standards are developed by

- (A) HACCP
- (B) ODEX
- (C) ECOMARK
- (D) WTO

167. As on date how many commodities are notified for which AGMARK Grade standards have been formulated under Agricultural produce (Grading and Marking) Act, 1937 ?

- (A) 222
- (B) 181
- (C) 154
- (D) None of these

168. The market where the produce is either finally disposed off to the consumer (or) processors (or) assembled for export is called as

- (A) Primary market
- (B) Secondary market
- (C) Terminal market
- (D) Seaboard market

169. The Central AGMARK lab is located at

- (A) Kolkata
- (B) Mumbai
- (C) Nagpur
- (D) Chennai

170. Audience response is an element in the communication model of

- (A) Berlo
- (B) Shanon and Weaver
- (C) Legans
- (D) Laswell

171. An institute at the State level for training of State department of agriculture people is

- (A) FTC
- (B) MANAGE
- (C) SAMETI
- (D) EEI

172. As per Census 2011, there are about 263 million agricultural workers in India. Out of this, women percentage is how much ?

- (A) 20%
- (B) 37%
- (C) 47%
- (D) 50%

173. Kissan Call Center (KCC) was started in India in the year

(A) 2001

(B) 2004

(C) 2010

(D) 2005

174. The process by which an innovation is communicated through certain channels over time among the members of social system is known as

(A) Distortion

(B) Diffusion

(C) Adoption

(D) None of these

175. Conducting method demonstration is based on the principle of

(A) Learning by doing

(B) Satisfaction

(C) Cooperation and participation

(D) Teaching

176. First KVK in India was established at

(A) Jaipur

(B) Pondicherry

(C) Gopalapuram

(D) None of these

177. Cooperative marketing in India has _____ tier structure.

(A) Two

(B) Four

(C) Three

(D) Six

178. Repayment of loans in a series of installment is called

- (A) Liquidity
- (B) Amortization
- (C) Hypothecation
- (D) Leverage

179. Which of the following offers a sort of price guarantee on the part of farmers to cultivate the crop ?

- (A) Procurement price
- (B) Minimum Support Price
- (C) Equilibrium price
- (D) Issue price

180. Commission for Agricultural Costs and Prices (CACP) was established in the year

- (A) 1955
- (B) 1975
- (C) 1965
- (D) 1985.

(Space for rough work)