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HPPSC Agriculture Development Officer

**Previous Year Paper
2017**



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TEST BOOKLET SERIES

TEST BOOKLET
ADO-2016



Time Allowed : 2 Hours]

[Maximum Marks : 100

All questions carry equal marks.

INSTRUCTIONS

1. Immediately after the commencement of the examination, you should check that 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 in the answer-sheet.
3. Write your Roll Number only in the box provided alongside.
Do not write anything else on the Test Booklet.
4. This Test Booklet contains 100 items (questions). Each item comprises four responses (answers). Choose only one response for each item which you consider the best.
5. After the candidate has read each item in the Test Booklet and decided which of the given responses is correct or the best, he has to mark the circle containing the letter of the selected response by blackening it completely with Black or Blue ball pen. In the following example, response "C" is so marked :

(A) (B) (C) (D)
6. Do the encoding carefully as given in the illustrations. While encoding your particulars or marking the answers on answer sheet, you should blacken the circle corresponding to the choice in full and no part of the circle should be left unfilled. After the response has been marked in the ANSWER SHEET, no erasing/fluid is allowed.
7. You have to mark all your responses ONLY on the ANSWER SHEET separately given according to 'INSTRUCTIONS FOR CANDIDATES' already supplied to you. Responses marked on the Test Booklet or in any paper other than the answer sheet shall not be examined.
8. All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the Answer Sheet. There will be no negative marking.
9. Before you proceed to mark responses in the Answer Sheet fill in the particulars in the front portion of the Answer Sheet as per the instructions sent to you.
10. 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.
11. After you have completed the test, hand over the Answer Sheet only, to the Invigilator.

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P.T.O.



ADO-2016

Time Allowed : 2 Hours]

[Maximum Marks : 100

1. For sowing one ha of certified maize seed field, how much seed is needed :
(A) 25 kg/hectare (B) 10 kg/hectare
(C) 15 kg/hectare (D) 40 kg/hectare
2. The weed that causes Asthma is :
(A) Hirankhuri (B) Bathua
(C) Parthenium (D) Krishna Neel
3. Teleomorphic stage of *Trichoderma* is :
(A) Pyricularia (B) Mycospharella
(C) Macrophomina (D) Hypocera
4. The headquarters of Indian Meteorological Department was established in 1875 at :
(A) New Delhi (B) Calcutta
(C) Pune (D) Hyderabad

5. The Community Development Programme (CDP) was started in India on :

(A) 2nd October, 1952

(B) 2nd October, 1950

(C) 2nd October, 1951

(D) None of these

6. The first Kshetriya Gramin Bank (KGB) was opened in India in :

(A) 1972

(B) 1980

(C) 1978

(D) None of these

7. PUSA 1509 is the variety of :

(A) Maize

(B) Wheat

(C) Rice

(D) Lemon

8. Which one is not the broad spectrum fungicide ?

(A) Captan

(B) Sulfur

(C) Mefenoxam

(D) Mancozeb

9. Which type of soil is best for cotton ?

(A) Loam

(B) Clayey loam

(C) All

(D) Clay

10. The main reason of Irish Famine in Potato was :

(A) Ear Cockle disease

(B) Bacterial Blight disease

(C) Blast disease

(D) Late Blight disease

11. ATMA stands for :

(A) Agriculture Technology Management Agency

(B) Agriculture Technology Monitoring Agency

(C) Agriculture Technology Monitoring Association

(D) Agriculture Technology Management Association

12. Year of Bengal famine is :

(A) 1848

(B) 1943

(C) 1945

(D) 1948

13. The term 'Extension' was first used in :

(A) U.K.

(B) U.S.A.

(C) India

(D) France

14. The size of clay particles is :

(A) 2.0 mm

(B) 0.2 – 0.03 mm

(C) < 0.03 mm

(D) < 0.002 mm

15. The Centre for Agriculture and Bioscience International was founded when and where :

(A) 1910 and England

(B) 1910 and US

(C) 1910 and Germany

(D) 1910 and India

16. The word 'Agriculture' is derived from :

(A) Greek

(B) French

(C) Arabic

(D) Latin

17. The origin of Mango is :

- (A) Southern Asia
- (B) Eastern Asia
- (C) Southern Africa
- (D) Eastern Africa

18. MNAIS stands for :

- (A) Mixed National Agricultural Insurance Scheme
- (B) Modified National Agricultural Insurance Scheme
- (C) Modernized National Agricultural Insurance Scheme
- (D) Mutual National Agricultural Insurance Scheme

19. Transformation was discovered by :

- (A) Griffith
- (B) Lederberg
- (C) Tatum
- (D) Zinder

20. Which soil has the highest efficiency ?

- (A) Loamy soil
- (B) Sandy soil
- (C) Clay soil
- (D) None of these

21. Magnesium is a constituent of :

(A) Nucleic acid

(B) Enzyme system

(C) Cell wall

(D) Chlorophyll

22. Which instrument is used to measure Radiation ?

(A) Darosometer

(B) Pyranometer

(C) Quantum sensor

(D) Lysimeter

23. Father of hybrid rice production is :

(A) Yuvan Long Ping

(B) Panchanan Maheshwari

(C) M.S. Swaminathan

(D) Strasburger

24. Photo-respiration rate is highest in which group of plants ?

(A) C₄ plants

(B) CAM plants

(C) C₃ plants

(D) None of these

25. The first genetically modified crop plant was produced in :

(A) 1982

(B) 1983

(C) 1984

(D) 1985

26. In plants, enzyme responsible for the synthesis of the malic acid is :
- (A) Rubisco (B) PEP carboxylase
(C) Kinase (D) Urease
27. The most deficient micro-nutrient in Indian soil is :
- (A) Cu (B) Mn
(C) Zn (D) B
28. National Horticulture Mission (NHM) started in year of :
- (A) 2000 (B) 2001
(C) 2004 (D) 2005
29. Spring sugarcane is planted in month of :
- (A) February-March (B) July
(C) October (D) December
30. is essential source for cell division and enlargement.
- (A) Calcium (B) Carbon
(C) Nitrogen (D) Potassium

31. Due to low atmospheric pressure, the rate of transpiration will :

- (A) Increase
- (B) Decrease rapidly
- (C) Decrease slowly
- (D) Remain unaffected

32. In which of the following plants, there will be no transpiration ?

- (A) Aquatic plants with floating leaves
- (B) Aquatic, submerged plants
- (C) Plants growing in hilly regions
- (D) Plants living in deserts

33. In dwarf wheat, sowing depth is related to :

- (A) Length of radicle
- (B) Length of coleoptile
- (C) Humidity
- (D) Temperature

34. Red light promotes the synthesis :

- (A) Xanthophyll
- (B) Chlorophyll
- (C) Anthocyanins
- (D) Carotenoids

35. Patch budding is generally practiced in :

- (A) Guava
- (B) Sapota
- (C) Ber
- (D) Anola

36. What is the name of the latest PARAM series supercomputer (2016-17) ?

- (A) PARAM Kanchenjunga
- (B) PARAM Yuva II
- (C) PARAM Yuva
- (D) PARAM Padma

37. Average content of silica in soil is :

- (A) 24%
- (B) 27%
- (C) 30%
- (D) 35%

38. Lowest category of soil classification includes :

- (A) Family
- (B) Great group
- (C) Order
- (D) Series

39. Which of the following is not the biofertilizer producing bacterium ?

(A) Nostoc

(B) Anabaena

(C) Clostridium

(D) Both (A) and (B)

40. The breakdown of cattle manure in biogas is accomplished by which of the following type of bacteria ?

(A) Hydrolytic

(B) Transitional

(C) Methanogenic

(D) All of these

41. Total number of Krishi Vigyan Kendras in India is :

(A) 641

(B) 642

(C) 643

(D) 645

42. Harrow is drawn by :

(A) Bullocks

(B) Tractor

(C) Diesel

(D) Bullocks and Tractor both

43. Indian agriculture is typically characterized as :
- (A) Land surplus, labour scare economy
 - (B) Land surplus, labour surplus economy
 - (C) Land scare, labour surplus economy
 - (D) Land scare, labour scare economy
44. Who is known as father of White Revolution in India ?
- (A) M.S. Swaminathan
 - (B) V. Kurien
 - (C) K.N. Bahal
 - (D) B.P. Pal
45. The scented variety of paddy is :
- (A) Jaya
 - (B) Bala
 - (C) Type-3
 - (D) Type-1
46. Wood sugar is :
- (A) Glucose
 - (B) Mannose
 - (C) Cellulose
 - (D) Xylose

47. Molds causing spoilage of eggs include species of :

- (A) Cladosporium
- (B) Mucor
- (C) Thamnidium
- (D) All of these

48. What is VAM ?

- (A) Fungi
- (B) Bacteria
- (C) Algae
- (D) Virus

49. Cabbage belongs to the family :

- (A) Cruciferae
- (B) Poaceae
- (C) Malvaceae
- (D) Leguminaceae

50. is a high quality, drought resistant grain grown mostly in Ethiopia.

- (A) *Zea mays*
- (B) *Setaria italica*
- (C) *Eragrostis tef*
- (D) *Cortaderia selloana*

51. The instrument, which is used for sowing of seed with fertilizer together at a time, is :
- (A) Seed drill (B) Dibbler
(C) Seed sowing behind plough (D) Ferti-cum Seed drill
52. Which is *not* the plough ?
- (A) Chisel Plough (B) Mole Plough
(C) Spade Plough (D) Diesel Plough
53. Maldah and Murshidabad are agri export zones for :
- (A) Mango (B) Pineapple
(C) Litchi (D) Potatoes
54. Jute processing industry first time started in which city of India in 1855 ?
- (A) Dhaka (B) Nadia
(C) Bardwan (D) Calcutta
55. is commonly known as Virginia tobacco.
- (A) Shade tobacco (B) Criollo tobacco
(C) Burley tobacco (D) Brightleaf tobacco

56. Which popular crop was encountered by Robert Bruce, Scottish adventurer, in the year, 1823 ?
- (A) Tea (B) Apples
(C) Citrus (D) Litchi
57. The term *permaculture* was first coined by in 1978.
- (A) David Booth and Bill Moore
(B) David Holmgren and Bill Mollison
(C) David Miller and Bill Morgan
(D) David Warner and Bill Gates
58. Growing of two or more crops concurrently and blend together on the same piece of land without row arrangements :
- (A) Mixed Cropping (B) Crop Rotation
(C) Relay Cropping (D) Intercropping
59. It is a pan-India electronic trading portal which networks the existing APMC markets to create a unified national market for agricultural commodities :
- (A) MNA (B) NAM
(C) MAN (D) ANM
60. Which state is not belonging to Ecological Zone I ?
- (A) Punjab (B) Delhi
(C) Uttar Pradesh (D) Gujarat

61. CSH 6 and CSH 4 are the hybrids of :
- (A) Foxtail Millet (B) Finger Millet
(C) Pearl Millet (D) Sorghum
62. Basabhog and Asamchudi are the traditional varieties of :
- (A) Wheat (B) Jute
(C) Citrus (D) Rice
63. The *nif* genes are located on plasmids called :
- (A) Sym plasmids (B) Sim plasmids
(C) F plasmids (D) R plasmids
64. Nanometers, is of a meter.
- (A) one millionth (B) one trillionth
(C) one billionth (D) None of these
65. Covered smut of barley is a disease of :
- (A) Externally seed-borne (B) Internally seed-borne
(C) Air-borne (D) None of these

66. Which of the following cakes is *not* edible ?

(A) Castor cake

(B) Mustard cake

(C) Sesame cake

(D) Groundnut cake

67. In India, about 142 million hectare land is under :

(A) Cultivation

(B) Waste land

(C) Forest

(D) Eroded land

68. Moisture condensed in small drops upon cool surface is called :

(A) Hail

(B) Dew

(C) Snow

(D) Fog

69. How many agro-climatic zones (ACZ) are found in India ?

(A) 16

(B) 18

(C) 15

(D) 20

70. Tilt angle of a disc plough is generally :

(A) 10°

(B) 15°

(C) 20°

(D) 45°

71. Puddling is done to :
- (A) Reduce percolation of water
 - (B) Pulverise and levelling soil
 - (C) Kill weeds
 - (D) All of the above
72. The main unit of Integrated Rural Development Programme is :
- (A) Family
 - (B) Village
 - (C) Block
 - (D) District
73. Order Agaricales belongs to the Class :
- (A) Deuteromycetes
 - (B) Oomycetes
 - (C) Ascomycetes
 - (D) Hymenomycetes
74. Nematode root rot of banana is caused by :
- (A) *Helicotylenchus dihystra*
 - (B) *Meloidogyne javanica*
 - (C) *Pratylenchus reniformia*
 - (D) *Radopholus similis*
75. In endospore staining, which one is used ?
- (A) Basic fuschin
 - (B) Indian ink
 - (C) Methylene blue
 - (D) Malachite green

76. Triticale is :

(A) Interspecific cross

(B) Intrasppecific cross

(C) Intergeneric cross

(D) Intrageneric cross

77. Bagging is done to :

(A) Prevent contamination from foreign pollen

(B) Avoid cross pollination

(C) Avoid self pollination

(D) Achieve desired pollination

78. The shortest of mitotic phases is the :

(A) Telophase

(B) Interphase

(C) Metaphase

(D) Anaphase

79. In maize, the food is stored in :

(A) Endosperm

(B) Aleurone layer

(C) Cotyledons

(D) Scutellum

80. The "breathing holes" on an insect are called :

(A) Trachea

(B) Spiracles

(C) Ostia

(D) Sprockets

81. Who reedited the Pathyar and Kanhiyara inscriptions ?
- (A) William Moorcraft (B) Thomas Coryat
(C) Francios Bernier (D) Sten Konow
82. Which raja of Chamba placed the brazen idols in the carved temples at Brahmapura around 700 A.D. ?
- (A) Meru Varman (B) Mushan Varman
(C) Sahil Varman (D) Soma Varman
83. Which is the oldest princely state in the Shimla hill states ?
- (A) Sirmaur (B) Bushahr
(C) Jubbal (D) Kehlur
84. At which place in Sirmaur District is Bala Sundari temple ?
- (A) Trilokpur (B) Choordhar
(C) Sio (D) Badaul
85. Which mountain pass joins Spiti and Lahul ?
- (A) Baralacha (B) Kunjam
(C) Hamtaha (D) Shipki

86. In which District of H.P. is Nako lake ?
- (A) Lahul-Spiti (B) Kinnaur
(C) Mandi (D) Chamba
87. In which Districts of H.P. is Majathal sanctuary ?
- (A) Solan and Bilaspur (B) Solan and Shimla
(C) Shimla and Kinnaur (D) Bilaspur and Shimla
88. Which of the following hydro-power project is in Private Sector ?
- (A) Sissu (B) Thirot
(C) Holi (D) Karcham Wangtoo
89. Around which year was Bilaspur Rajya Praja Mandal set up ?
- (A) 1938-39 (B) 1941-42
(C) 1943-44 (D) 1945-46
90. According to 2015-16 *Economic Survey* in which district of H.P. has *Beti Bachao Beti Padhao* campaign been started ?
- (A) Bilaspur (B) Sirmaur
(C) Una (D) Chamba

91. When was *Digital India Campaign* launched ?
- (A) July, 2014 (B) August, 2014
- (C) August, 2015 (D) None of these
92. Which of the following flyover collapsed in Kolkata recently killing many people ?
- (A) Dayananda Saraswati Road Flyover
- (B) Aurobindo Ghosh Road Flyover
- (C) Rama Krishna Paramhansa Road Flyover
- (D) Vivekananda Road Flyover
93. At which place did P.M. Modi launch *Gram Uday Se Bharat Uday* programme around April, 2016 ?
- (A) Ujjain (B) Mhow
- (C) Ratnagiri (D) Varanasi
94. Why was Sabrimata temple of Kerala in news recently ?
- (A) Fire works display in which several people died
- (B) Ban on entry of women
- (C) Clashes between different caste groups
- (D) Stampede in which many people died
95. Who became the CM of Assam after the 2016 Vidhan Sabha Elections ?
- (A) Tarun Gogoi (B) Bishnu Das Bhawe
- (C) Prafulla Kumar Mahanta (D) Sarbananda Sonowal

96. Who won the ICC World Twenty 20 (Cricket) women title in April, 2016 ?
- (A) Australia (B) West Indies
(C) England (D) India
97. What is La Nina ?
- (A) Abnormal cooling of the ocean temperatures
(B) Extreme form of drought
(C) Deficient monsoon
(D) Abnormal warming of ocean temperatures
98. When was the first Instagram sent from International Space Station by Steve Swanson ?
- (A) April, 2016 (B) May, 2015
(C) May, 2014 (D) April, 2014
99. Which continent has the largest number of countries ?
- (A) Asia (B) Europe
(C) Africa (D) North America
100. With which of the following is law firm Mossack Fonseca associated ?
- (A) Panama Papers (B) Wikileaks
(C) Transparency International (D) Climate Change