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**HPPSC
Agriculture
Development
Officer**

**Previous Year Paper
2017**



DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**TEST BOOKLET SERIES****TEST BOOKLET
ADO-2016****A**

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.
4. Do not write anything else on the Test Booklet.
5. 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.
6. 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) **●** (D)

7. 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.
8. 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.*
9. 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.
10. 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.
11. After you have completed the test, hand over the Answer Sheet only, to the Invigilator.

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P.T.O.



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

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 :

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 ?

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 :

27. The most deficient micro-nutrient in Indian soil is :

28. National Horticulture Mission (NHM) started in year of:

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.

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

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 :

34. Red light promotes the synthesis :

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 ?

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

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

42. Harrow is drawn by :

43. Indian agriculture is typically characterized as :

- (A) Land surplus, labour scarce economy
- (B) Land surplus, labour surplus economy
- (C) Land scarce, labour surplus economy
- (D) Land scarce, labour scarce 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 :

48. What is VAM ?

49. Cabbage belongs to the family :

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

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

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

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

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 dihystera*
- (B) *Meloidogyne javanica*
- (C) *Pratylenchus reniformis*
- (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 :

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 :

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

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) Thirrot
(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

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