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# **WBPS ADA**

**Previous Year Paper**  
**20 Jan, 2024**



AD/AG/2023

1. Which combination between insect and symptom of damage in rice is wrong?
  - (A) Yellow stem borer : White earhead
  - (B) Gall midge : Onion leaf
  - (C) Leaf roller : Small pieces of cases
  - (D) Gundhi bug : Chaffy spikelet
2. When the spacing of maize is  $50\text{cm} \times 20\text{cm}$ , then the number of plants in 1 ha land is
  - (A) 50,000
  - (B) 1,00,000
  - (C) 2,00,000
  - (D) 5,00,000
3. Which combination between Research Station and Location in West Bengal is wrong?
  - (A) Rice Research Station: Chinsura, Hooghly
  - (B) Banana Research Station: Dinhata, Coochbehar
  - (C) Sugarcane Research Station: Bethuadahari, Nadia
  - (D) Pulses and Oilseeds Research Station: Berhampur, Murshidabad
4. The recommended fertilizer dose of chickpea is 20:40:40 (N :  $\text{P}_2\text{O}_5$  :  $\text{K}_2\text{O}$ ) kg/ha, then for one acre it will be
  - (A) 50:100:100 kg/acre
  - (B) 8:16:16 kg/acre
  - (C) 12:24:24 kg/acre
  - (D) 40:80:80 kg/acre
5. Shelf life of bio-fertilizer is
  - (A) Solid carrier-based: 3 months, and Liquid bio-fertilizer: 3 months
  - (B) Solid carrier-based: 3 months, and Liquid bio-fertilizer: 6 months
  - (C) Solid carrier-based: 3 months, and Liquid bio-fertilizer: 12 months
  - (D) Solid carrier-based: 6 months, and Liquid bio-fertilizer: 24 months
6. The cost of cultivation of rice is Rs. 30,000/ha. and net return is Rs. 45,000/ha, then benefit cost (B:C) ratio is
  - (A) 0.67
  - (B) 1.50
  - (C) 2.00
  - (D) 2.50
7. The growing of agricultural, horticultural and forest crops in a system known as
  - (A) Agri-silviculture
  - (B) Silvi-pastoral
  - (C) Agri-silvi-pastoral
  - (D) Agri-horti-silviculture
8. Which information among crops is wrong?
  - (A) Gynophore of Groundnut: Peg
  - (B) Inflorescence of Wheat: Ear
  - (C) Terminal inflorescence of Maize producing male flower: Tassel
  - (D) Floret of Sunflower producing seed: Ray floret
9. Which pair of crops are not suitable for micro-propagation on commercial scale?
  - (A) Banana and Pineapple
  - (B) Potato and Tomato
  - (C) Lentil and Chickpea
  - (D) Chrysanthemum and Gladiolus
10. Water held between tension of  $\frac{1}{3}$  bar and 31 bar in soil is classified as
  - (A) Gravitational water
  - (B) Capillary water
  - (C) Hygroscopic water
  - (D) Available water





11. Which information is wrong?  
 (A) Wilt in brinjal : Bacteria  
 (B) Khaira in rice : Zn deficiency  
 (C) Leaf curl in tomato : Virus  
 (D) Whiptail in cauliflower : Fungus
12. When a farmer gets 12 quintal lentil seed from 1.5 ha land, then the yield of lentil is  
 (A) 800 kg/ha  
 (B) 2.4 t/ha  
 (C) 18 q/ha  
 (D) 1200 kg/ha
13. Based on test weight (1000 seed), which relationship is correct?  
 (A) Groundnut > Chickpea > Wheat > Rice  
 (B) Chickpea > Groundnut > Rice > Wheat  
 (C) Groundnut > Wheat > Chickpea > Rice  
 (D) Chickpea > Groundnut > Wheat > Rice
14. Which combination of crop and spacing is correct?  
 (A) Maize: 30cm × 10cm  
 (B) Sunflower: 30cm × 10cm  
 (C) Chickpea: 30cm × 10cm  
 (D) Potato: 30cm × 10cm
15. Which pair of crops are native of India?  
 (A) Mungbean and Urdbean  
 (B) Sunflower and Castor  
 (C) Tobacco and Potato  
 (D) Maize and Napier
16. The nutrient use efficiency can be improved through  
 (A) use of fertilizer in dry soil.  
 (B) use of slow release fertilizers.  
 (C) use of fertilizers in wet soil.  
 (D) use of complex fertilizers.
17. Which relationship between crop and family is wrong?  
 (A) Sunflower : Asteraceae  
 (B) Cotton : Pedaliaceae  
 (C) Tobacco : Solanaceae  
 (D) Groundnut : Fabaceae
18. The optimum time of application of nitrogen (N) for rice is  
 (A) basal, booting and heading  
 (B) basal, tillering and flowering  
 (C) basal, tillering and panicle initiation  
 (D) basal, panicle initiation and post-flowering
19. The seed potato rate and fertilizer dose (N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O) recommended for potato cultivation in West Bengal is  
 (A) 10-12 q/ha and 60:30:30 kg/ha  
 (B) 12-15 q/ha and 100:50:50 kg/ha  
 (C) 15-18 q/ha and 150:75:75 kg/ha  
 (D) 18-20 q/ha and 200:150:150 kg/ha
20. In a split-plot design, there are 4 sowing dates in main plots, 5 varieties in sub-plots and 3 replications, then total degrees of freedom is  
 (A) 23  
 (B) 59  
 (C) 35  
 (D) 39

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21. Terrace cultivation is practised in  
(A) Flood prone coastal areas  
(B) Dry farming regions  
(C) Saline tracts  
(D) Hills and mountains
22. Plant takes nitrogen (N) mostly in the form of  
(A)  $\text{NO}_3$   
(B)  $\text{NO}_2$   
(C)  $\text{NH}_4$   
(D)  $\text{NH}_3$
23. Which combination between crop and varieties is correct?  
(A) Rice: IET 4786, MTU 7029  
(B) Sunflower: Seeta, Pusa Bold  
(C) Chickpea: Asha, Samrat  
(D) Jute: Jahar, Janak
24. Cycocel is an anti-transpirant of  
(A) Stomatal closing type  
(B) Film forming type  
(C) Growth retardant type  
(D) Reflectant type
25. A farmer gets 2700 kg jute fibre from 1 ha and. The yield of jute is  
(A) 15 bales/ ha  
(B) 18 bales/ ha  
(C) 20 bales/ ha  
(D) 27 bales/ ha
26. Which information is wrong?  
(A) Indian Seed Act: 1966  
(B) The Fertilizer (Control) Order: 1985  
(C) The Biological Diversity Act: 2002  
(D) National Food Security Act: 2019
27. In medium-duration rice (120 days), which information on average lengths of growth stages is correct?  
(A) Vegetative (60 days), Reproductive (30 days), and Ripening (30 days)  
(B) Vegetative (30 days), Reproductive (60 days), and Ripening (30 days)  
(C) Vegetative (40 days), Reproductive (40 days), and Ripening (40 days)  
(D) Vegetative (30 days), Reproductive (30 days), and Ripening (60 days)
28. Result demonstration is an extension teaching method based on the principle of *seeing is believing*, which is categorized under  
(A) Individual methods  
(B) Group methods  
(C) Mass methods  
(D) Communication methods
29. Honey season in Sundarbans of West Bengal is  
(A) September–November  
(B) March–May  
(C) June–August  
(D) December–February
30. Which combination is wrong?  
(A) Minor pulse crop : Horse gram  
(B) Minor edible oilseed crop : Niger  
(C) Minor millet : Pearl millet  
(D) Minor fibre crop : Ramie

31. Sulfur fertilization is recommended for improvement of

- (A) Carbohydrate content in Cereals
- (B) Protein content in Pulses
- (C) Oil content in Oilseeds
- (D) Sugar content in Sugar crops

32. Refractometer is used to determine

- (A) maturity of standing sugarcane crop.
- (B) end point of retting in jute.
- (C) scheduling of irrigation in potato.
- (D) end point of curing in tobacco.

33. Sandy loam soil usually contains

- (A) 50-70% sand, <50% silt and <20% clay
- (B) 30-40% sand, 50-60% silt and <20% clay
- (C) 50-70% sand, <20% silt and <50% clay
- (D) 30-40% sand, <20% silt and <40-50% clay

34. Which cropping system is wrong?

- (A) Sesame (*kharif*) — Jute (*rabi*)
- (B) Groundnut (*kharif*) — Mustard (*rabi*)
- (C) Sunflower (*kharif*) — Potato (*rabi*)
- (D) Jute (*pre-kharif*) — Maize (*rabi*)

35. 1 ha. cm. water =

- (A) 1000 liters
- (B) 10000 liters
- (C) 100000 liters
- (D) 1000000 liters

36. The aroma in rice is developed mainly due to the presence of

- (A) 2-acetyl-1-pyrroline
- (B) Allyl-iso-thio-cyanate
- (C) Beta-oxalyl-amino-alanine
- (D) Alfatoxin

37. Based on seed rate under normal sown condition, which relationship among crops is correct?

- (A) Wheat > Rice > Arhar > Jute
- (B) Arhar > Rice > Jute > Wheat
- (C) Rice > Jute > Wheat > Arhar
- (D) Jute > Wheat > Arhar > Rice

38. Reclamation of acid soil can be done by the use of

- (A) FYM
- (B) N-fertilizers
- (C) Bio-fertilizers
- (D) Lime

39. The average size of land holding in West Bengal is

- (A) 0.57 ha
- (B) 0.77 ha
- (C) 0.97 ha
- (D) 1.17 ha

40. The average protein content in green gram (dal) is about

- (A) 15%
- (B) 25%
- (C) 35%
- (D) 45%

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41. Which forage crop was introduced in India during early 20th century with a name of 'Elephant Grass', but it is presently cultivated in eastern and northern parts of India?

- (A) Berseem
- (B) Lucern
- (C) Oat
- (D) Napier

42. The toll-free number of Kisan Call Centre in India is

- (A) 1800-180-1551
- (B) 1800-180-1515
- (C) 1800-180-5151
- (D) 1800-180-5115

43. When fertilizer dose is 80 kg N/ha and half is given as basal, then amount of urea required per acre before sowing is

- (A) 44 kg
- (B) 35 kg
- (C) 88 kg
- (D) 70 kg

44. Dapog or Tray nursery of rice requires

- (A) less space and more time.
- (B) more space and less time.
- (C) less space and less time.
- (D) more space and more time.

45. Leaf Colour Chart (LCC) is used to assess

- (A) Leaf area index
- (B) Leaf area duration
- (C) Real time for top dressing of nitrogenous fertilizers
- (D) Leaf production rate

46. Which information is wrong?

- (A) Incorporation of *dhaincha* plant in soil for green manuring *in-situ* : 6 weeks after sowing
- (B) Haulm cutting in potato : On the date of harvesting
- (C) Peg becomes visible in groundnut : 1 week after fertilization
- (D) Irrigation in wheat at crown root initiation stage : 3 weeks after sowing

47. When the seed yield and stover yield of Indian mustard are 1000 kg/ha and 1500 kg/ha, respectively; then the harvest index is

- (A) 33%
- (B) 40%
- (C) 67%
- (D) 150%

48. West Bengal ranks first in production of

- (A) Paddy, Potato and Vegetables
- (B) Paddy, Jute and Vegetables
- (C) Potato, Jute and Vegetables
- (D) Paddy, Potato and Jute

49. Which information for both Gobindabhog and Tulaipanji rice is correct?

- (A) Geographical indication, both are indigenous aromatic rice
- (B) Geographical indication, South Bengal as native area for both varieties
- (C) Geographical indication, North Bengal as native area for both varieties
- (D) Geographical indication, both are aromatic high-yielding rice

50. Which combination between crop and isolation distance for production of certified seed is wrong?

- (A) Paddy : 3m
- (B) Lentil : 10m
- (C) Rapeseed-Mustard : 200m
- (D) Jute : 300m



51. Which of the following bacteria is aerobic and non-symbiotic?  
(A) *Azospirillum*  
(B) *Azotobacter*  
(C) *Rhizobium*  
(D) *Clostridium*
52. The significance of difference among treatment means is determined by  
(A) Standard error of mean  
(B) Co-efficient of variance  
(C) Critical difference  
(D) Correction factor
53. When direct sown rice is compared to transplanted rice of the same variety in same season at same location, then which statement is true?  
(A) Longer life duration of direct sown rice  
(B) More weed infestation in transplanted rice  
(C) Less grain yield in direct sown rice  
(D) Dry nursery is required for direct sown rice
54. Muriate of potash (KCl) has adverse effects on crop quality, so it is not recommended for the cultivation of  
(A) Rice, Wheat and Maize  
(B) Mustard, Sunflower and Sesame  
(C) Jute, Cotton and Sunhemp  
(D) Potato, Tobacco and Sugarcane
55. Which combination of silk type and districts in West Bengal is wrong?  
(A) Muga: Coochbehar  
(B) Eri: Paschim Medinipur  
(C) Tasar: Bankura and Purulia  
(D) Mulberry: Malda and Murshidabad
56. Hybrid rice seed is produced by crossing between  
(A) CMS line and Maintainer line  
(B) Maintainer line and Restorer line  
(C) CMS line and Restorer line  
(D) None of the above
57. Types of Darjeeling tea are  
(A) 2: Black and Green  
(B) 3: Black, Green and White  
(C) 3: Black, Green and Oolong  
(D) 4: Black, Green, White and Oolong
58. Which sequence of seed treatment is recommended for leguminous pulse crops?  
(A) *Rhizobium* → Fungicide → Insecticide  
(B) *Rhizobium* → Insecticide → Fungicide  
(C) Fungicide → Insecticide → *Rhizobium*  
(D) Insecticide → Fungicide → *Rhizobium*
59. Which information is wrong?  
(A) Alternate bearing in mango  
(B) Branch bending technique in guava  
(C) Hand pollination in pointed gourd  
(D) Nipping in napier grass
60. Which combination is correct?  
(A) Milling of paddy: 80-85%  
(B) Shelling of groundnut: 45-50%  
(C) Jaggery (gur) from sugarcane: 10-15%  
(D) Oil from sesame: 25-30%

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61. Number of grades (W/TD) in fibre quality for both of *white* (W) and *tossa* (TD) jute used for minimum support price (MSP) in India is

- (A) 3
- (B) 4
- (C) 5
- (D) 6

62. The Department of Agriculture, Government of West Bengal has an ICT-based agri-extension portal —

- (A) Matir Katha
- (B) Mati Tirtha
- (C) Basundhara
- (D) Krishishree

63. Seed treatment can be done by

- (A) Monochrotophos
- (B) Metribuzin
- (C) Chlorpyrifos
- (D) Mancozeb

64. Which combination is wrong?

- (A) Groundnut : Alfatoxin
- (B) Mustard : Allyl-iso-thio-cyanate
- (C) Lathyrus : Beta-oxalyl-amino-alanine
- (D) Pearl millet : Dhurin

65. When rainfall is less than 25% of its normal, it is known as

- (A) Permanent drought
- (B) Contingent drought
- (C) Hydrological drought
- (D) Meteorological drought

66. Farmers are advised to use certified seeds for sowing of crops in their fields. The colour of the tag for certified seed packet is

- (A) White
- (B) Golden
- (C) Blue
- (D) Green

67. Ginning (%) of cotton is calculated by

- (A)  $(\text{Weight of seed cotton} \div \text{weight of lint}) \times 100$
- (B)  $(\text{Weight of fuzz} \div \text{weight of seed cotton}) \times 100$
- (C)  $(\text{Weight of lint} \div \text{weight of seed cotton}) \times 100$
- (D)  $(\text{Weight of fuzz} \div \text{weight of lint}) \times 100$

68. Which sequence about contribution of sources of irrigation water in West Bengal is correct?

- (A) Well > Canal > Other > Tank
- (B) Tank > Canal > Well > Others
- (C) Canal > Tank > Others > Well
- (D) Canal > Well > Tank > Others

69. Which combination between insect and scientific name is wrong?

- (A) Rice Gundhi bag : *Leptocorisa acuta*
- (B) Mustard Aphid : *Lipaphis erysimi*
- (C) Gram Podborer : *Helicoverpa armigera*
- (D) Jute Stem girdler : *Anomis sabulifera*

70. Which information on herbicide is wrong?

- (A) Pendimethalin : Post-emergence, Non-selective
- (B) Butachlor : Pre-emergence, Selective
- (C) Sulfosulfuron : Early post-emergence, Selective
- (D) Paraquat : Contact, Non-selective



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71. Which combination of information on agro-chemicals is wrong?
- (A) Diquat : Fungicide
  - (B) Diazinon : Acaricide
  - (C) Dazomet : Nematicide
  - (D) Tetraconazole : Bactericide
72. The growing of two or more crops simultaneously on the same piece of land under definite row arrangement system is known as
- (A) Multiple cropping
  - (B) Mixed cropping
  - (C) Intercropping
  - (D) Sequence cropping
73. The certified organic product of India being exportable should have
- (A) 'Organic' logo
  - (B) 'Organic India' logo
  - (C) 'India Organic' logo
  - (D) 'PGS-India' logo
74. The basic principle of mulching is
- (A) to increase germination of seed.
  - (B) to conserve soil moisture.
  - (C) to reduce soil organic matter.
  - (D) to increase soil temperature.
75. Which of the following information on weeds is wrong?
- (A) Aquatic weed: *Eichhornia crassipes*
  - (B) Grass: *Echinochloa colonum*
  - (C) Broadleaf weed: *Elusine indica*
  - (D) Sedge: *Fimbristylis miliacea*
76. Which information on mobility of nutrients in plants is wrong?
- (A) N, P and K : Highly mobile
  - (B) S, Fe and Mn : Less mobile
  - (C) Zn : Moderately mobile
  - (D) Ca and B : Highly mobile
77. The criteria of essentiality of nutrients was proposed by
- (A) D.J. Nicholas
  - (B) Arnon and Stout
  - (C) Jackson
  - (D) Piper
78. Dryland farming is characterized by
- (A) Rainfall < 800 mm and Growing season > 200 days
  - (B) Rainfall < 800 mm and Growing season < 200 days
  - (C) Rainfall > 800 mm and Growing season > 200 days
  - (D) Rainfall > 800 mm and Growing season < 200 days
79. Kharif season in West Bengal is characterized by
- (A) high temperature and less humidity.
  - (B) moderate temperature and high rainfall.
  - (C) moderate temperature and more sunny days.
  - (D) high temperature and less cloudy days.
80. When the same crop is cultivated under both rainfed and irrigated condition, then which information is usually correct for optimum population and efficient use of nutrients?
- (A) Higher seed rate and higher fertilizer dose for rainfed crop
  - (B) Higher seed rate and higher fertilizer dose for irrigated crop
  - (C) Higher seed rate and lower fertilizer dose for rainfed crop
  - (D) Higher seed rate and lower fertilizer dose for irrigated crop

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81. Cropping intensity is calculated by
- $(\text{Gross cropped area} - \text{Net cropped area}) \times 100$
  - $(\text{Net cropped area} \div \text{Gross cropped area}) \times 100$
  - $(\text{Net cropped area} - \text{Gross cropped area}) \times 100$
  - $(\text{Gross cropped area} \div \text{Net cropped area}) \times 100$
82. The full form of RKVY is
- Rashtriya Krishi Vikas Yojana
  - Rashtriya Krishi Vigyan Yojana
  - Rashtriya Krishak Vikas Yojana
  - Rashtriya Krishak Vigyan Yojana
83. Which combination is wrong?
- King of Cereals: Wheat
  - King of Pulses: Lentil
  - Queen of Cereals: Maize
  - Queen of Oilseeds: Sesame
84. When sample size =  $n$ , then which range of correlation coefficient ( $r$ ) at what degrees of freedom (d.f.) is correct?
- $r = 0 - (+) 1.00$ , d.f. =  $n - 1$
  - $r = (-) 1.00 - (+) 1.00$ , d.f. =  $n - 2$
  - $r = (-) 1.00 - (+) 1.00$ , d.f. =  $n - 1$
  - $r = 0 - (+) 1.00$ , d.f. =  $n - 2$
85. Which agro-climatic zone of West Bengal has terraced land, acidic soil and annual rainfall  $> 3000$  mm?
- Red and Laterite Zone
  - Terai Zone
  - Coastal Saline Zone
  - Hill Zone
86. Which experimental design allows any number of treatments and replications under homogenous material condition?
- Completely Randomized Design
  - Randomized Block Design
  - Split-plot Design
  - Strip-plot Design
87. The principal alkaloid in opium is
- Nicotin
  - Nimbidin
  - Morphin
  - Ergotin
88. Which combination between crop and pollination is wrong?
- Maize: Cross pollination, Wind-blown pollen
  - Mustard: Hermaphrodite, Both self and cross pollination
  - Sunflower: Cross pollination, Bee as pollinator
  - Flax: Cross pollination, Insect as pollinator
89. Which information on organic manure is wrong?
- Rural compost : Indore method
  - City compost : Bangalore method
  - Vermicompost : *Eisenia foetida*
  - Mahua cake : Very fast in releasing nutrients
90. Which crop sequence is best for maintenance of soil fertility?
- Maize — Toria — Wheat
  - Paddy — Wheat — Green gram
  - Paddy — Potato — Green gram
  - Groundnut — Mustard — Green gram



91. Which combination between analytical test and instrument is wrong?

- (A) N content in grain : Kjeldahl apparatus
- (B) K content in soil : Flame photometer
- (C) Oil content in oilseeds : Soxhlet apparatus
- (D) Chlorophyll content in leaf : Luxmeter

92. Which crop is used as a pulse, fodder and green manure crop?

- (A) Mungbean
- (B) Urdbean
- (C) Cowpea
- (D) Pea

93. Which relationship between crop and average yield under normal condition is correct?

- (A) Wheat: 50-60 q/ha
- (B) Pigeon pea: 8-15 q/ha
- (C) Potato: 100-150 q/ha
- (D) Sugarcane: 300-400 q/ha

94. Retting of jute means

- (A) making sack from fibre.
- (B) shedding of leaves in the field.
- (C) decomposition and loosening of fibre from sticks in water.
- (D) grading of fibre in the market.

95. The normal period of south-west monsoon in West Bengal is

- (A) Second fortnight of May to First fortnight of September
- (B) First fortnight of June to First fortnight of October
- (C) Second fortnight of June to Second fortnight of October
- (D) First fortnight of July to First fortnight of November

96. Which forecast is highly useful to farmers for planning activities in agriculture?

- (A) Short range: 1 to 3 days in advance
- (B) Medium range: 4 to 10 days in advance
- (C) Long range: Month to Season in advance
- (D) Nowcast: 0 to 6 hours in advance

97. The colour of label for moderately toxic pesticide is

- (A) Red
- (B) Yellow
- (C) Blue
- (D) Green

98. Which information on agricultural implement/ machinery is wrong?

- (A) Sprayer : Pest management
- (B) Combine harvester : Harvesting, threshing and winnowing
- (C) Drone : Crop mapping and pest management
- (D) Paddy transplanter : Puddling, fertilizing and transplanting

99. Seed rate (3-budded setts) of sugarcane is

- (A) 10000-20000 / ha
- (B) 50000-60000 / ha
- (C) 30000-40000 / ha
- (D) 70000-80000 / ha

100. Which helps plants to recover from moisture and salinity stress more rapidly?

- (A) Proline
- (B) Gibberellin
- (C) Cytokinin
- (D) Auxin