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QUESTION BOOKLET

SERIES I

PAPER- 1 (AGRONOMY, HORTICULTURE, PHYSIOLOGY)

BOOKLET SERIAL NO.

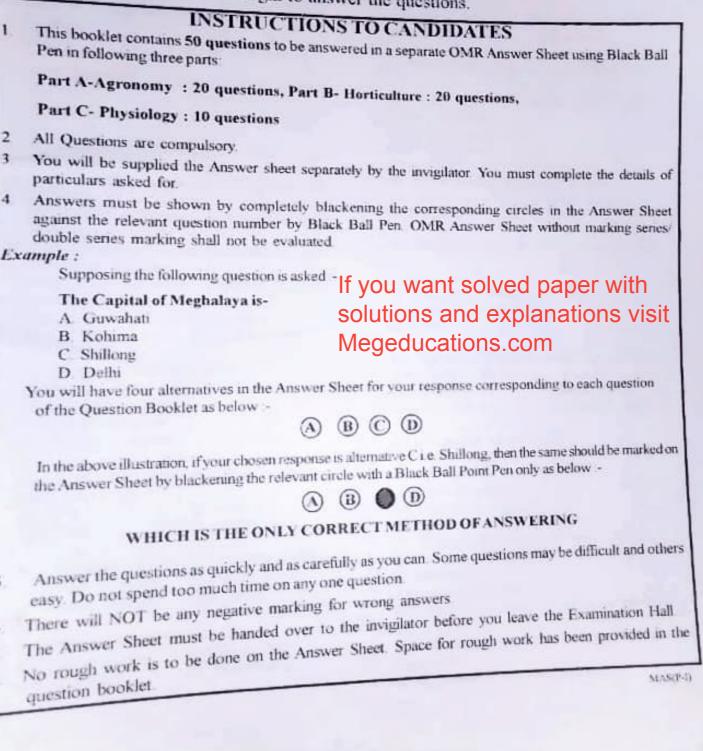
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Marks 100 Time : 1 hour

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



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PARTA

AGRONOMY

Each question carries two marks :

Direction : In each of the following questions four options are given, choose the right answer.

I. The term Agr	relature is derived from two
Latin words ager	or agri meaning
a) Water	b) Soil
c) Air	d) All of the above

2. The father of the Green revolution in India is a) William Gaud b) Kirti Singh c) M.S. Swaminathan d) K.L. Chaddha

 Which of the following are the main features of Green revolution ;

 High Yielding Varieties, chemical fertilizers and pesticides

 ii) High Yielding Varieties, mechanization of agriculture and irrigation

iii) High Yielding Varieties, processing and postharvest management

 iv) High Yielding Varieties, chemical fertilizers and precision farming
 a) (i) only
 b) (ii) only

c) (i) & (ii) only d) (iii) & (iv) only

4. Technologically, seed may be

a) Matured ovule

b) Propagating materials

c) Both of the above

d) None of the above

5. The optimum moisture content of seed for long term storage

a) 2-4% b) 6-8% c) 8-10% d) 10-12%

6. It is considered that _____as father of tillage
a) Justus van Liebig
b) Francis Bacon
c) Thomas Jefferson
d) Jethrotull

7. Dibbling is also known as

a) Random sowing b) Drill sowing c) Line sowing d) Broadcasting 8. The immobile essential elements within plant are

a) Zn	b) B
c) K	d) P

9. The biofertilizer legume inoculants was mainly due to organism a) Pseudomonas b) Azolla

al a second second	
c) Azospirillum	d) Rhizobnum

 The index tissue for nutrient analysis in citrats

a) Leaves + petiole (3-5 months old)

b) Youngest leaves

c) Petiole (1 month old)

d) All of the above

11. Depth of water required by a crop is ?

a) Water level b) Water height

c) Water quantity d) Delta

 The important approach in micro watershed is

a) Soil conservation

b) Productivity improvement

c) Storage of runoff water

d) All of these

13. The water utilizable by plants is available in soils mainly in the form of
a) capillary water
b) chemical water
c) gravity water
d) hydroscopic water

14. Fertigation is a process in
a) Sprinkler irrigation
b) Drip irrigation
c) Surface irrigation
d) Centre pivot irrigation

15. What are the benefits of implementing the Integrated Watershed Development Programme?
i) Preventing soil runoff
ii) Linking the perennial rivers with seasonal rivers
iii) Rainwater harvesting and recharge of groundwater table
iv) Regeneration of natural vegetation

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a) (i) and (ii) only b) (ii), (iii) and (iv) only c) (i), (iii) and (iv) only d) (i), (ii), (iii) and (iv)

16. In India the National Farmers' Day or Kisan Diwas is celebrated on the a) November 27 b) November 30 c) December 23

d) December 25 17. The partial root parasite is a) Cuscuta b) Loranthus c) Striga

d) Orobanche

18. Successful weed management is based on i) Knowledge on weed biology ii) Survey on the nature of weed problem iii) Whole farm planning iv) Removal of weeds before flowering a) (i) and (ii) only b) (i), (ii) and (iii) only c) (i), (iii) and (iv) only d) all of the above

19. Besides providing Nitrogen, Azolla is used a) Wheat b) Rice c) Castor d) Linseed

20. What are the units of LD₅₀? a) mg/kg body weight b) g/g body weight c) kg/g of body weight d) mg/g body weight

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PART B HORTICULTURE

then decide carries	two marks .	JULINE.		
		c) Patch budding	d) All of the above	
tain a balance between	of plant parts to main-	0.000		
	egetative and reas	31. The most recent a	democration raising of	
a) Training	tepro-	 The most recent advancement in raising of plants under highly controlled environmental con- 		
c) Cultural operation	b) Pruning	ditions is	United Environmentation com	
	UJ NOTE A	a) Greenhouse		
22. How much down t	the above	c) Phytotron	b) Lath house	
accommodate more he	exagonal planting system ants than square system b) 10 percent	-7 raytotron	d) Mist chamber	
a) 5 percent	ants than sources system	17 1000		
c) 15 percent	b) 10 percent	orchand method of	irrigation is suitable for	
er to percent	d) 20 percent	CICILLI LICIDE		
11 Einer	percent	a) Basin method	b) Ring basin method	
23. Filler trees are for	und in	c) Furrow method	d) All of these	
and statistics of Statistics	h) Post	11		
c) Triangular system	b) Rectangular system	33. The origin of tea (Camellia sinensis) is		
	a distribution of the	- oouncast Asia	b) Central Asia	
24. India is the world	's loss t	c) South America	d) East Asian	
following fruit crons	's leading producer of the			
a) Mango		34. Mohitnagar is a v	anety of	
c) Papaya	b) Banana	ay ou pain	b) Arecanut	
	d) All of the above	c) Coconat	d) Cocoa	
25. Menha Turn				
25. Megha Turmeric		35. Fly Picking is associated with		
a) Clonal selection	b) Hybrids	a black pepper	b) Cashew	
c) Transgenie	d) None of the above	c) Opium	d) Coffee	
26 The areat		16.7		
the growth regul	lator used for induction of	36. Tea mosquito is a major pest of		
parthenocarpy in gra a) GA3	pes	at cocondit	b) Cocoa	
	b) NAA	c) Cashew	d) None of the above	
c) Ethylene	d) ABA	17		
		37. Abnormal leaf fa	ll is a disease of	
27. Propagation due	to mutotic division is	a) Rubber	b) Tea	
a) Asexual propagate	ion	c) Arecanut	d) Coffee	
b) Sexual propagatio	-			
c) Both of the above		38. A lawn can be described as		
d) None of the abov		a) Green carpet		
and the cit the above	•	b) A land covered w	ah lawn grass	
20. 21. 10. 10. 10.		c) A piece of land in a garden		
28. Nucellar seedin		d) A beautifully designed piece of land with green		
a) True-to-type	b) Virus free	grass		
c) Vigorous seedling	is d) All of the above			
		39. Which is known	as miniature garden ?	
29. 'Ruby Red' is a	sport mutant of	a) waghal garden	b) English parden	
a) Grapefruit	b) Apple	c) Japanese garden	d) Italian garden	
c) Khasi mandarin	d) Pear		Struct	
c) remain manuarin		40. Family of tuber	OSe is	
10	I monomial technique of	a) Malvaceae	b) Rosascae	
30. The commercia	al propagation technique of	c) Amarylliadacese		
	b) Inverted T-Budding	and a second second	d) Compositine	
a) T-budding	b) inversed r-binaning			

Each question carrie

PART C PHYSIOLOGY

Each question carries two marks :

41. The response of plants to the relative length of day and night is known as a) Vernalization b) Photoperiodism c) Phototrophism d) None of these

42. Which of the following is a long day plant ? a) Sugar beet b) Whent c) Barley d) All of these

43. In flaceid cell, the pressure potential is a) Zero b) Ten c) Twenty d) One

44. To explain ascent of sap in plants, Sir J C. Bose (1923) proposed a) Vital theory b) Physical force theory c) Root pressure theory d) All of these

45. Which is a C4 plant " a) Soyabean b) Maize c) Pineapple d) All of the above

46. Which is a continuous source of water in C4 cycle ? a) Only Xylem b) Only phloem c) Vascular tissue which consists both sylem and phloem d) Stoma

47. Hidden hunger in plant is ? a) In which plant shows deficiency symptoms b) In which plant doesn't show deficiency symptems

c) In which plant needs supply of essential mitractits

d) In which plant doesn't need supply of essential nutrients

48. Which is a CAM plant ? a) Mango b) Tamarind

c) Kran	fruit	d)	Pincapple
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49. Who is known father of plant physiology? b) Funk a) W Kuntis

MANP-D

c) Fisher

d) Stephen hales

- 50. In germinating seeds sugar is present as a
- c) Galactose
- b) Glucose d) Fructove

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