w 1.	What do you mean by plant breeding, give its scope
	and importance of plant breeding and give its
	objective?
Ans >	Defination of plant breeding =
	7
	" plant breeding may be defined
	as the art, science and technology of improving
	genetic make up of crop plant I'm relation (to
	Their economic we for mankind"
, , ,	Scope of plant breeding >
	<u> </u>
	1) There is ample scope for genetic improvement
	of pulses and oilseed cops
	1 India. considerable area is under rainfed
	cultivation, Hence there is need to develop crop
	cultivars resistant to drought condition.
	3) In view of global wandning, there is need
	to develop crop cultivars suitable for climate
*	change.
	The Clabour how become very expensive. Hence
	there is need in many crops to develop
	varieties Buitable for machine harvesting.
	3) The problem of metal toxicity is incre asing
	in many area particularly adjacent to
	industries. Hence, there is need to develop
	crop cultivars tolerant to metal toxicity.
	J
	objective of plant breeding +
	J
-	In plant breeding, there are two type
	of objective vix. general objective and crop specific
	of column A

9.7	
27-1	objective. A brief account of some general object
1 (1)	plant breeding is presented below;
	(i) Higher yield > The moun objective of a plant
	breeder is to improve the yield
	of economic brogace opicy giffers from crob
	to crop. Improvement yield can be achieved
	either by evolving bed sides was the
	either by evalving high fielding varieties or
	-
	(99) Too
	(ii) Improvement in quality + The price of produce
	is determined by its quality. Ago
	quality differs from crop to crop. It refers of
	cooking quality to rice, baking quality in whea
1/	malting quality in barley, there length, strong
	and Ofineness in cotton, natritive & keeping
	quality in truits and regetable. protein content
	in pulses, oil content in oil-seed and osugar
	content in Sugarcant and Sugar beet Etc.
	U U
	(iii) Resistance to Biotic Stress + Biotic Stress refers +
	Stress causes by biotic factor
	Such as insects, diseases and parasite weeds. In
	crop plant considerable field losses are caused by
	insect and diseases) Genetic resistance is the cheapest
	and the best method of minimizing Guch losses
	Resistant varieties are developed through the use
	of resistant donor parent available in the
	gene pool.
	(N) Resistance to Abiotic stress + crop plant also suff
	From abiotic factors Such as
	drought, soil salinity, heat, wind, cold, and frost

Breeders to develop resistance varieties for such environmental conditions. (y) Mider Adaptability & Adaptability is an important 111111111111 objective in plant breeding because it helps in stabilizing the crop production Vover regions and season! Adaptability refers to suitability of a variety for general cultivation over a wide range of environmental conditions. (4) Yearly Maturity & Early mouturity is a desirable character which my several advantages. It require less crop management period) les insecticidal sprays, permits double cropping oystem and reduces. over production cost. This earliness is an important objective in plant breeding programmy. (ii) Insensitivity to Temperature and Light & Development of varieties insensitive to light and temperature helps in crossing the cultivation boundaries of crop plant, In maize, rice and potato now varieties are available which can be grown during summer as well as winter season Evolution of photo and thermoinsensitive varieties their cultivation in new array outside the boundaries of cultivation of a crop specia. (viii) synchronous Maturity & IT refers to maturity of a crop species at one time. This character is highly desirable in crops like greengram. cowpea, and cotton where Several picking are required for roop harvest. (ix) Desirable Agronomic characters > It includes plant teight, branching, tillering capacity growth tratit etc. Usefulness of these traits also from crop to crop.

	(x) Development of Toxin free varieties > It is essent
	to the varieties of It is essent
	to develop varieties free from toxic compound in some crops to make them safe of
	human consumption.
	(xi) crop specific objective + In some crop Such as
	1
	harvesting it min are area of the before
	harvesting it rain are received. A period of dorm
	the course in their can to all the
	due to germination.
Que 2)	What do you mean by male sterility, ? Enlist
	different types of an inches
	different types of male sterility describe
Α	all type of male sterility.
-Ans ==	
	Definition of male strility >
	Male Sterility can be defined
1 ×	as a condition in which potten is either absent
	or nonfunctional in flowering plants.
	Different types of male sterility >
	biggerent types of mar steering 7
	There are three type of male Sterility ?
	@genetic male sterility.
	6 cytopleumic male sterility.
	O eytoplasmic genetic male sterility.
	(a) Genetic male Sterility > The pollen sterility which
	is caused by nuclear gene is termed as gen
	or genetic male sterility. This type of sterility has
	been reported in Several crop plant like barky, who
	been reported in several crop plant tomato, sugarbeet
	maire, cotton, sorghum, lucerne, tomato, sugarbeet

C/2	
-	
ent	main feature of genetic male sterility are given
ron	below >
e 9	1) Moun Sterility genes are usually recessive and
J-	rasely dominant.
	1) In majority of cases, Sterility is caused by single
ped	gene However, in tew cases two or more gene control
	male Sterility.
nm	(III) This system consists of two types of lines viz., Aline
105:	and Bline. A line refer to genetic male Sterile line (mm)
	which is used as temale parent in hybrid seed prod-
	uction. Bline is heterozygows fertile (Mm) line which
3	is similar to A line except for sterility B line is used
8	to maintain (sterile line (A). Thus A and B line are
18	isogenic lines with a difference of fertility locus.
8	The genetic mate sterile line is maintained by
1	crossing recessive made sterile plant (mm) with
	heteroxygows made fertile plant (Mm), such cross-
	will yield 50% sterile plant and 50% featile plants.
	Merits > 1) GMs can be used for the production of
1	hybrid seed in both seed propagated crops &
100	vegetatively propogeted species.
12	Describe male sterility generally does not have
1	undesirable agronomic characters.
	(3) It require less area and labour, because the
1258	breeder has to maintain only A and Bline.
17.7	Demenits + There are three main disadvantage of
	genetic male sterility. O It is less Stable.
hic	GMs can sometime become tertile particu-
gen	larly low temperature.
ha	2) 50°10 plants are tertile which have to be
whe	removed every year in hybrid seed product.
beet	This increase cast of hybrid seed.

	3 Identification of male sterile and fertile plant is pa
	only after anibesis.
No. of Lot	(B) Cytoplaimic Male Sterillity & The pollen Sterility
	which is controlled by cytoplasmic gene
	or plasmagene is known as cytoplasmic male steritty!
	It has been reported in onion, sugar beet, sorghum
	The main features of Ceytoplasmic mal
it.	Strility are given below -
8	@ plant graning particular type of cytoplasm are
	male sterile but will produce seed if pollinators
	are bresent.
	1 This system consist of A line and Bline. A is male
	Sterile and B is male fertile
	3) The cytoplaimic male sterile line is maintained
	by crossing of Atine with Bline.
	( cytoplasmic male sterility cannot be utilized for
	hybrid geed production without the use of restorer li
	because fil seed produce only male Herile fi plant
-	3 cms is not influenced by environmental factor suc
	as low or high temperature.
	Merit > The CMs is that it is stable one & is not
	effected by environmental Jactor.
-	Demerit +) The CMS can not be used for the production
	of hybrid in those crop where seed as grain i
	the economic broauct.
	(1) cytoplasmic Genetic male sterility & When pollen
	Then pollen
-	by both cytoplasmic and nuclear gence, it is known
	as equipasitive generic male sterility The
	male sterility was first discovered by Toals and
	Davis in 1994 in onion.
-	

A 55	
s pol	The main features of cytoplasmic, genetic male sterility.
13	are given below-
	The male sterility is controlled by the interaction of
lity	cytoplasm and nuclear genes.
gene	(ii) This system includes A, B, and R lines . A is made
PHY!	sterile line, B is similar to A, in all feature but
hum	is make featile and R restores the featility in the
mal	fi hybrid and hence is couled restorer line since Bline
	is wed to maintain the fertility, It is also referred.
36	to as maintainer line.
200	(11) cytoplamic male sterile line can be maintained by
	crossing the male sterile eytoplamic line with male
alc	tertile cytoplaimise line.
1000	There is type of male sterility can be used for the
ed	production of hybrid in both vegetatively propagated as
	well as Seed propogated crop because in F. Uhybrid
as	Fertility by the Orestore line.
2 19	
ant	Merits + 1 cytoplamic genetic male sterility is widely
Suc	wed for hybrid seed production in both seed
	propagated species and vegetatively propagated species.  (Dicoms is highly is highly Stable and reliable.)
	U @cams is highly is highly stable and reliable.
	3 It is not affected by environmental factor
chol	
2 !	Demenits =
	1) It require more area and labour
	2) The main disadvantage of this system
	is that the breeder has to maintain three
Upso	types of line vix. A, B, and R.
oroi	
of	

		1
_ Qu s>	What do you mean by sert incompability give the	(
	classification different type of self incompability	•
	explain any one in detail.	
Ans-		
	Defination of Self incompability >	
	Self incompatibility is an important	
	mechanism which prevent autogramy and promote allog	
	Incompatibility refers to the Vinability of a plant	
	with functional pollen to set seed when Self pollinal	
		(
_	Types of self Incompatibility )	
-	gametophytic self incompati	(
	2) Saprophytic Gelt incompatibil	1
		1
	( Gametophytic System / Selt in compatibity )	1
		1
	The self incompatibility which is controlle	-
	by the genetic constitution of gameter, it is known a	-
-	gametophytic self incompatibility.	
	The main feature of this system are	_
<u> </u>	presented below 7	_
7	Delt incompatibility Pn-majority of species is	_
<u> </u>	governed by a single gene SI which has large number	_
-	of multiple allelet. However, in sye seit incompatibilit	_
ed State of the st	reaction is governed by two lock.	
-	1) In this Usystem alleles have individual action in	_
4	the style without interaction.	_
-	3 pollen grain are unable to germinate or functi	_
<u> </u>	on a pistil thaving similar aller as that of pollen	_
7	Style or ovary	_
-	(a) This system give rise to three type of pollination	_
	vix, Ofully incompatible (siszxsisz) in which both alle	-
7	The part of color of the color of the color of the	

	are common in the pollen and ovure. (2) half the poller
	is compatible (5,52 × S,53) in which one curele is
	different and (iii) fully fertile (S,S2 × S3S4) When both
	cultered differ in pollen and ovule;
	3 Grametophytic system permit recovery of male parer
	only in the partially tertile crosses which are
	obtained when one whele deffer in the cross viz.
/	SIS2×5,53. This cross would give rise to 5,53 and
	S2S3 progeny.
	@ plant species belonging to gamteophtic Selt incompa
	tibility system have binucleate pollen.
	@ All gametophytic system operate with well stigma
	surfact and there is no direct interaction between
	one pollen grain and one surface cell because germi-
_	pation terre place en a common fluid medium.
	The biochemical substance which is associated with
_	the incompatibility response of the pollen develop
_	very late i.e during pollen formation in gametophytic
_	(g) with few expectation, gametophytic System
_	Ps polyalelie, homomorphic and often involve
_	a stylar reaction for species with
	binucleate pollen grain.
	This Note Downloaded from WEBSITE  Visit For Other B.Sc AGRICULTURE Notes, Practical Manual, Question
Carlo Sandaran	Paper, Model Answer Paper, And other Agriculture Information  WWW.BSCAGRISTUDY.ONLINE
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rot method.  The service of the superiority of the superiority of the superiority of the superiority of the superiority.	rot method.  (ross politicated		Siraking (a)	1		Andrew Hardware & the	1	over it parals	على الا بمايمين ا	5,504.4	1	Heterosis extimuion	ed explain til	the Helmosta, give				(a) progent Sele	Plas Self	Cresp +	Ports of bringing und		Single send o	-	(3) Buckening method	(a) Profiger contrad	(iii) mass selection	(3) pure line selection	() Introduction	9	- Ann o Method of breeding wind	
- 正文(三) 「2 (名)(を) 2 (中)名   「名 ( 根)(2 ( 2 ) 第 ) 「名 (四 ( 2) 中) ( 2 ) を) 「名 ( 2 ) を) これを) これを)	Theresis Preceding to this Helmosis Preceding to this Helmosis Preceding to this Helmosis of the Superiority of the Superiority of the Superiority of the Superiority of Superiority of the Shull According to this here's here superiority to this here's h	Foll	94.1	1	Popleris	e Signatur			one or more characte	er's to the Superiority by	1	9	of)	S,	6°#	Pave	na(n	Scientian.			Th frees politrated	÷ 7	. UA	gene	2	+	dy	ction		3	on self- politinated	1

11005100	uniform	the cross
1 4	heteroxygous and not	mean varia of two parent involved in
	- 10	where P. H. the mean value of P, and MP is the
dariety is homosygous		Average heteroses = [CA-MP)/MP] x 100
	1100 a 10111-	4 yollowing formala -
		1) Average heterosis is estimated with the help of
raised Rext ras	Dext Oran	
1000	and sown as such in	type as given below +
t skept sto	Sciecked plant is mixed	bours of estimation heterosis is of three
SUNBORD	3. The produce of the 3.	and (1) over commercial p hybrid. Thu on +
	11	(1) over mild parent (1) over better parent
of plant are sciected.	plants are sciented	Heterosis is estimated in three different wa
Compana	2. Large numbers of 12.	
		Estimation of Heterosis >
pollinated crop only	Cross pollinated I(rop	,
practiced in Sc	1. Used both in Self and 1.	contribute to heterosis.
	-	2
Dureline Selection	Mays Selection	Commonce x dominance
1		X of Three type viz additive X
ne Scheelion	Mass selection and purctine	Chin es allelic interaction. The non-
		an on more different lock. It is also
	give the difference Between	alite of two or mer to interaction between in st
var.	the local commercial cultivar.	
Joe over the production of	befre ce is the me	Or shipmation of divergent of divergent 181
11 - coloco x 100	m-usa	sestuting from cumulative action in the neterozyge
Dr.d	(ii) Use w Heterosis is estim	inposed mobizonia negocial bushing in
	שארנעופיר כיים	thornt
ue of the better parent	where Bp is the mean value	ubstance in heterograph
[(A-BP)/BP] x 100	HeterobelHosis =	and to On products both he
		City Deres 24 gosis . The
		The Dekart of

much attention		12 onward			7
does not require	MOCE	breeder			
The st TT	(F -C	4) Require close attro-			
		new Yariety			
15 Years	1	12-13 Tears to release			(
Taken more than	6)	6) generally its taken			1
	_	and laborious			
	1	is often time consum-			
are modniained.	3-	to be maintained which			
Nop	5>				
of the bulking period			programm.		
1 /			Contigramon	to identify.	
pos		docs not	to rethropi of	relatively distinguit	
Matural selection deter-	43		11. It is relatively early	11. The voriety is	
		the method.	flve +		
may be essential .!		an integral part of	pureline vaniety	variety is effective	
artificial sciection		eptedemics etc. are	a 10. Sciention within a	10. Selection within	
1		+	. Daywas	- 1	
	18	A Antiticial Sciection 3-	Con Sand	Morr	
			-	Science is grow	
		amogenies are grown		9. No knowledge	
		and individual plant			
C. town in park.		Subsequent generation	due to hor	du to heterozygosity	
)	1	Selected in Fz and	bility 8. Narrow adaptability	V. wider adaptability	-
Dear C	*	1 -		+	
C and subsequent			)	purity the variety	
		Breeding method		2-3 years to	1
extent	1	\$ Most wider wice	ວຶ	sono paradore	
wed only to a limited	4	١.	-	_	
	1			1	
- 1		pedigree method		quickin .	
The method	1		1	CHY	
	-	Difference of	Adopted to homographical (1)	11 00	-

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	tuted.	ofter 4-5 Hear
does not measure the complaint	cannot be reconsti-	6. Seed replacement 6.
첫		later date
n below 9	reconstituted.	reconstituted at a
1 '0	cannot be	5. Gynthetic can be 5.
0.		1
Ihis	based .	based
, ,	More broad	4. It is broad 4.
c of sections of the section of		
1	not be predicted	be predicted
	performance can	3. performance can 3.
	is not tested.	is tested
combining dentity Selection	Gich of parental I'me	1
Teligh.	Good pa	
	more (even upto 20)	1937(6-8)
+	No. of lines are	1 ~
Simple Selection		
Here are jour lyling beleet	voricty.	Variety
134	Composite	Synthetic
10000	i chi	
Topulation.	ete and composite variet	1) Difference between Synthetic
\$		
micd to little of him	C	to bulk
important memora	5	
recombination ".	The population size is	18
"nierbreeding of Selects to provide for your		,
as reselection generation other generation w		Sciection.
lection may be		Individual plant
De Hoadion +		T
-	at Commercial plantings	and space planted
type and explain any one in actions	-	40
1 -	() The bulk population 14)	The

have been increase by the use of their	
6 yield of sugarcane and octaploid stramberries	
wild species Nicolia debneyi.	Ostlection,
@ In tobacco, yield were increase by the west	· broceduse of simple seconstent
in some crop. Usome examples are given below	
been achieved through the use of wide hybridization	
Improvement in yield how also	above.
	Repeat as progenics.
	Crosses among
(vii) dward Stature carliness etc.	2- Make all possible
(i) adaptation (ii) mode of reproduction and	year 11111 Seed of third year.
Valiseaus resistance (11) Insect resistan	fourth to Grow crop from se
browing Good blant for	CHCIC. THENCHOSS
de or distant hybridization	N N
	3.
Role of wide in bridization in crop improvement	
	707 000000 2.
the same family is known as wide interior comme	000
ame genus or &	SSocratory
معربي مراهدد	consposite of
MOLECTION	
0	8. Marvist mossed sed
0.0	mong progenicy.
	2. Make all
Tolory or Tolory	
nage of but	4. Raise
the bais of taxonom	Thtercass-
divation ."	SCIECHOD)
plant or line of dissimilar	
"The History	
Hybridization +	100000 Select Superior Am
does	o o o o T. or I'maked
	0 0 0 0 0
What do you man the Role of wide Hybridization	Source Stranger
or Carre serves of	
The same of the sa	

wide hybridization has been finstrum greening disease relistance from wild mustain the cuttivated ones. Some examples, are been existence to hust and black arm the existance to hust and black arm the plack are black fire, blue mosale vinus. A change in and vinux.  The Resistance to late blight, least and eye spe and vinux.  The Resistance to bacterial cankers and wild, flusarium	of freadment.	
Therefore the stitume of mutation of mutat	recommended dose and	
The handle property of the defination of mutation. In the procedure of the defination of mutation. In the different of the control of the procedure of the control of the procedure of the	treatement with selected	
Therefore the different the di	y year	
There are stance a status and black are form wild after a status on the status of the	4	
in hansferning discale resistance from while procedure of the cultivated ones some example, one of mutusion breeding.  Grothon: Resistance to kust and blag, ann groth discale.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the section of the phenotype of an individual.  Grothon: Resistance to the sustance in the groth individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the sustance in the groth individual.  Grothon: Resistance to the different individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phenotype of an individual.  Grothon: Resistance to the fight, leaf in the phe	of mutation breeding	Te.
Tin hansferning disease resistance from with of mutusion of mutusion, give the diffraction of mutusion, give the diffraction of mutusion of mutusion, give the diffraction of mutusion of		example profits cooker to quality cultivated
The povement in quality 3 promuse to been instrumed by the defination of mutation, give the different in the proceedable of the constraint of the constraint of the proceedable of the constraint of the procedable of the constraint of	analogue Sarridine dyne UEU Others	med to come the arrive openie
To honselening disease resistance of mutation of mutation give the distinction of mutation give the distinction of mutation give the distinction of mutation of mutation give the distinction of mutation of mutation of mutation the procedure of the construction of mutation of mutation of mutation the procedure of the construction of mutation	four group vix. () askylating ag	Some Gross Will Some
Defination of mutation of muta	The chemical mutagene can be	Improvement in quality
Delate resistance and black arm complet and state of mutation of m	such chemical is beyond the scope	- 1
wide heristance a with heart instrum and extraction of mutation give the different hans ferring disease religione from wild the of mutation of mutation of mutation give the different hans ferring disease. There is a long list of chemical mutation of two mutations.  There is a long list of chemical mutation of mutation of two of two of mutations and utro violet says.  There is a long list of chemical mutation of the particles of the says.  There is a long list of chemical mutation of the chemical mutation of the particles of the says.	are used as mutagens	species to cultivars.
District resistance and been instrum.  Defination of mutation give the different transferring disease resistance from wild mutation of mutation of mutation. give the different transferring disease resistance from wild mutation of mutation of mutation.  Defination of mutation of mutation of mutation of mutation of mutation the procedure of the cultivated ones. Some examples are considered to the first and black of mutation	There is a long	awarm has here I prant and
in hansferring disease resistance ones. Some examples are  Species into cutivated ones. Some examples are  Other below.  That one Resistance to hust and black arm  Segarcance Resistance to hust and black arm  Other blacks Resistance to hust and black arm  Other blacks Resistance to hast and black arm  Other blacks Resistance to hast and black arm  Other blacks are to mosaic virus, we change in the phenotype of an individual."  Other are Resistance to lake bight, lead are and virus are also are and virus are also are and virus are and eye specification are are sistance to backerial with, flusarium with, backerial with, flusarium with, and particle, beto particles, dath and the sistance of backerial cankers also are and particle, beto particles, dath and the sistance of second and the particle, beto particles, dath and the sistance of second and the particle, beto particles, dath and the sistance of second and the particle, beto particles, dath and the sistance of second and the particle, beto particles, dath and the sistance of second and the second and the sistance of second and the second and the sistance of second and the sistance of second and the sistance of second and the second and th	) chemical mutagene >	least chewing in sect and boll
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two different Para	
(2) Hyperploidy - Addition of one chromosome to one pur	released as a variety.
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par (20-1) or from two different pain	OMMH- 10 cation evaluation in co-ordinated
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	planting of Me disease resistant progeny in
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(1) Hypoploidy - @Monosomic.	(iii) Thuking of bomozygow disease resistant
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