



## BIOLOGY

### BOOKS - TRUEMAN BIOLOGY

# STRATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION

Mcq

1. The science of rearing, feeding, care, berding and utilization of animals is called

A. animism

B. veterinary science

C. animal husbandry

D. dairy science

**Answer: C**



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**2. Livestock refers to:**

A. pet animals

B. poultry and pet animals

C. domestic animals which are kept for use for profit

D. none of the above

**Answer: C**



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3. First artificial insemination was done in India at

- A. national dairy institute karnal (haryana)
- B. indian veterinary research institute izatnagar (u/p)
- C. punjab agricultural university ludhiana (punjab)
- D. allahabad agricultural institute allahabad (u.p)

**Answer: B**



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4. The most important livestock of India are:

- A. cattle and buffaloes

B. cattle and dog

C. dog and cat

D. elephant and cattle

**Answer: A**



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5. Which is one of the earliest animals to be domesticated ?

A. cow

B. sheep

C. dog

D. elephant

**Answer: C**



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6. Cryopreservaion is

- A. preservation of living being in chemicals
- B. preservation throiugh expour to irradiation
- C. preservation at very low temperature
- D. preservation through use of gases

**Answer: B**



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7. Best source for dietary protein for a vegetarian is

A. soy bean

B. gram

C. groundnut

D. milk

**Answer: D**



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**8. The indian fresh water prawn is**

A. panaeus

B. palaemon

C. palaemneus

D. none of these

**Answer: B**



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**9. Surrogate mother is**

- A. mother without lactation
- B. future mother with embryo implanted from another
- C. carrying several embryos
- D. artificially inseminated female

**Answer: B**



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10. Famous angora wool is got from

A. sheep

B. rabbit

C. goat

D. yak

**Answer: B**



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11. One week old embryo can be preserved at

A.  $-196^{\circ}C$

B.  $-200^{\circ}C$



C.  $-270^{\circ}C$

D. none of these

**Answer: A**



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12. The number of the cattle breeds in India is:

A. 6

B. 16

C. 26

D. 36

**Answer: C**



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13. Cattle breeds in india are classified into

- A. milch breeds and drought breeds
- B. drought breeds and general utility breeds
- C. milch breeds drought breeds and general utility breeds
- D. general utility breeds and milch breeds

**Answer: C**



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14. Gir is

- A. a milch breed

B. a drought breed

C. both 1 and 2

D. neither 1 nor 2

**Answer: A**



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**15. Zebu cattle is:**

A. water buffalo

B. indian buffalo

C. cow

D. sheep

**Answer: C**



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16. Infertility of local breeds of cattle can be overcome by use of

- A. cross breeding with exotic breeds
- B. good nourishment
- C. testosterone
- D. gonadotropin

**Answer: D**



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17. An exotic breed of cow is

A. ongole

B. friesian

C. halliker

D. deoni

**Answer: B**



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**18. National Dairy Reserch Institute (NDR) is situated. In :**

A. Chandigarh

B. Mumbai

C. Madras

D. Karnal

**Answer: D**



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**19. Cows and buffaloes remain in heat for**

- A. 24-36 hours
- B. 24-36 days
- C. 7-10 day
- D. 15-20 days

**Answer: A**



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20. Rinderpest is the disease of

A. buffaloes

B. cattle and dog

C. pigs

D. horses

**Answer: B**



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21. A draught breed of cattle is

A. red sindhi

B. gir

C. malvi

D. haryana

**Answer: C**



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**22. Drought breeds produce**

A. good milk producing cows

B. good working bullocks

C. both 1 and 2

D. none of the above

**Answer: B**



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23. Artificial breeding of cattle is brought about by

- A. artificial insemination
- B. superovulation and embryo transplantation
- C. homozygotic twinning
- D. all the above

**Answer: D**



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24. Hybrid breed of cattle is

- A. sunandini

B. holstein

C. brown swiss

D. kankrei

**Answer: A**



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**25. General utility breeds are**

A. gir sahiwal and deoni

B. malvoi nageri and halliker

C. haryana ongole and kankrej

D. deoni gir and mlavi

**Answer: C**



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26. Improved variety of cattle produced by controlled breeding in our country is

- A. jersy
- B. ayrshire
- C. karan swiss
- D. red dane

**Answer: C**



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27. Best milch breed of cattle is :

A. harayan

B. malvi

C. kankerj

D. sahiwal

**Answer: D**



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**28. Foot and mouth disease attacks**

A. cattle

B. camels

C. sheep and goats

D. horses

**Answer: A**



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**29. Lactation in sterile cows is induced by**

A. vitamin  $B_{12}$

B. `stibesterol

C. gonadotropin

D. none of these

**Answer: B**



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30. Number of breeds of indian bufflaoes is

A. 14

B. 7

C. 16

D. 17

**Answer: B**



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31. The milk yielding capacity of Buffalo is

A. three times more than cows

B. double than cows

C. four times more than cows

D. none of the above

**Answer: A**



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**32. Which breed of buffaloes is most popular ?**

A. murrah

B. bhadawari

C. jaffrabadi

D. surti

**Answer: A**



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**33.** Gestation period for buffalo is

- A. 9 months
- B. 14 months
- C. 10 months
- D. 21-22 months

**Answer: C**



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**34.** Niliri ravi is a

- A. buffalo



B. cow

C. pig

D. sheep

**Answer: A**



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**35. Jaffrabadi breed of bufflao is distributed in**

A. gujarat

B. malvi

C. hallikee

D. none of these

**Answer: A**



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**36.** Most of female bufflaoes show sign of heat in the

- A. morning
- B. aftrenoon
- C. evening
- D. night

**Answer: D**



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**37.** The largest number of buffaloes in the world are found in

A. usa

B. russia

C. australia

D. india

**Answer: D**



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**38.** Sheep and goats differ in their

A. habit

B. habitat

C. size

D. body shape horn size and nose shape

**Answer: D**



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**39.** Pashmina wool is obtained from a variety of

A. sheep

B. goat

C. ribbit

D. yak

**Answer: B**



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40. Which one is poorman 's cow?

A. sheep

B. yak

C. goat

D. lama

**Answer: C**



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41. Bhakarwal breed of sheep is distributed in

A. gujrat

B. maharashtra

C. rajasthan

D. jammu & kashmir

**Answer: D**



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**42. Gaddi breed of goat is distributed in**

A. punjab

B. rajasthan

C. himichal pradesh

D. keralal

**Answer: C**



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43. Lohi is a breed of

A. sheep

B. goat

C. fowl

D. geese

**Answer: A**



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44. Which of the following is an exotic breed of sheep?

A. nali

B. lohi

C. merino

D. bhakarwal

**Answer: B**



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**45. Landrace is a breed of**

A. horse

B. pig

C. camel

D. donkey

**Answer: B**





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**46.** Most important factor to be taken into consideration while constructing pig house particularly in tropical countries is

- A. sun light
- B. air
- C. humidity
- D. temperatue

**Answer: D**



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**47.** Most economic meat making animals is

A. yak

B. pig

C. goat

D. sheep

**Answer: B**



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**48.** Bhutia is an indian breed of

A. cattle

B. horse

C. sheep

D. pigs

**Answer: B**



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**49.** The animal most useful on difficult terrains is

A. mule

B. yak

C. camel

D. elephant

**Answer: A**



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50. A beast of burden which needs little care is

A. pig

B. donkey

C. mule

D. yak

**Answer: B**



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51. Spiti breed of horse is found in

A. ladakh

B. himachal pradesh

C. rajasthan

D. gujrat

**Answer: B**



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**52.** There are two breeds of donkeys in india these are small grey and large whit ethe large white is also called wild ass which occurs in

A. rajasthan

B. bihar

C. assam

D. rann of kutch

**Answer: D**



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**53. Mule is sterile and is the interspecific hybrid of**

- A. horse x mare
- B. horse x ass
- C. ass x mare
- D. none of these

**Answer: C**



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54. There are two kind of camels arabian and bactria the arabian camels have one hump nad bactrian camels possess

- A. two humps
- B. one hump
- C. four humps
- D. variable number of humps

**Answer: A**



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55. Water is regularly supplied from the oxidation of food present in the

- A. liver

B. stomach

C. hump

D. intestine

**Answer: C**



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**56. Camels breed in**

A. summer

B. winter

C. hump

D. intestine

**Answer: B**





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57. Indian camel is characterised by

A. 3 humps

B. 2 humps

C. 1 humps

D. variable number of humps

**Answer: C**



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58. Number of breeds of indian camels is

A. 2

B. 3

C. 4

D. 5

**Answer: D**



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**59. Indian breeds of camel are**

A. jaisalmeri

B. sindhi

C. bikaneri & kutich

D. all of these

**Answer: D**



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**60. Pure breeds of fowls are**

A. aseel

B. ghagus

C. brahma & cochin

D. all of these

**Answer: C**



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61. The deficiency of vitamin E causes which disease in poultry?

A. Scurvy

B. Loss of appetite

C. Night blindness

D. Beri Beri

**Answer: B**



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62. Pullorum disease of poultry is known as

A. white diarrhoea

B. coccidiosis

C. fowl fox

D. none

**Answer: A**



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**63.** Which of the following is not an excellent egg laying breed ?

A. single comb white leghorn

B. rhode island red

C. new hampshire

D. australorps

**Answer: C**



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**64.** Coccidiosis in poultry is caused by

- A. protozoans parasite
- B. nematode parasite
- C. virus
- D. tape worms

**Answer: A**



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**65.** Fowl pox is caused by

A. ectoparasites

B. endoparasites

C. bacteria

D. virus

**Answer: D**



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**66.** Ranikhet disease is caused by

A. bacteria

B. virus

C. fungus

D. parasite

**Answer: B**



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**67.** Deworming is done with the substance mixed with the poultry feed

- A.  $CI_4$  and pipezine
- B. terramycin
- C. sodium methazine
- D. none of the above

**Answer: A**



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68. Austro white is the hybrid of

- A. gllus with white leghorn
- B. australop male and white horn femlae
- C. desi varity with exotic bird
- D. none of the above

**Answer: A**



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69. The broilers are birds raised for

- A. feathers
- B. eggs
- C. cock fighting

D. meat

**Answer: D**



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**70. Which is a fungal disease of poultry ?**

A. aspergilloses

B. pox

C. cholera

D. ranikhet

**Answer: A**



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71. Exotic breeds of fowls are

- A. white leghorn and ply mouth rock
- B. rhode insland red and austrolorp
- C. sussex and minorca
- D. all the above

**Answer: D**



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72. Aquaculture involves production of

- A. usual aquatic plants
- B. useful aquatic animals

C. useful aquatic plants and animals

D. harmful aquatic plants and animals

**Answer: C**



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**73.** Fish commonly raised by polyculture are

A. labeo rohita

B. catla catla

C. mystus singhala

D. both 1 & 2

**Answer: D**



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74. Which is an important food fish?

- A. catla
- B. hippocampus
- C. tricanthus
- D. none of these

**Answer: A**



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75. Fish meat is considered to be better because

- A. it has more proteins

B. it has more fats

C. it has lesser carbohydrate

D. none of the above

**Answer: A**



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**76. Important edible fresh water fishes of india are**

A. labeo , calbasu catla

B. mystus clarius anabas

C. heterpneustes wallago

D. all of the above

**Answer: D**



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77. Which of the following is a freshwater food fish ?

A. harpodon

B. cirrhina mirigala

C. anguilla

D. hilsa

**Answer: B**



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78. Important edible marine fishes of india are

A. bombay duck salmon

B. hilsa pomphret

C. Eel sardine

D. all the above

**Answer: D**



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**79.** Fish introduced in india by foreigeners is

A. labeo rohita

B. mystus singhala

C. pomphret

D. clasius batrachus



**Answer: C**



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**80.** In India the best aquarium is located at

A. vishakhapatnam

B. chennai

C. tarapur mumbai

D. z.s.i calcutta

**Answer: C**



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**81.** Fishes reared in culture fishery in india are

A. salmon and rohu

B. salmon and catia

C. catla and magur

D. rohu and catla

**Answer: D**



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**82.** Important species of honey bees are

A. 2

B. 3

C. 4

D. 5

**Answer: C**



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**83.** Which species of honey bee is commonly domesticated and cultured ?

A. *apis indica*

B. *apis mellifera*

C. *apis dorsata*

D. *apis flora*

**Answer: B**



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**84.** Workers of honey bee are

- A. fertile males
- B. sterile males
- C. fertile females
- D. sterile females

**Answer: D**



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**85.** The caste that develops by parthenogenesis in honeybee is

A. queen

B. drones (fertile males )

C. workers

D. none of these

**Answer: B**



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**86.** Bee venom is used to cure

A. cystitis

B. arthirits

C. laryngitis

D. bronchitis

**Answer: B**



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**87.** The honey bee queen arises from a fertilized egg and of its larva especially fed on

A. honey

B. Pollen

C. royal jelly

D. macro organisms

**Answer: C**



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**88.** Royal jelly is composed of

A. pollen

B. honey

C. digested honey and pollen mixed with a glandular secretion

D. mucus

**Answer: C**



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**89.** The worker arises from a fertilized egg and its larva is fed on

A. pollen

B. honey

C. mucus

D. royal jelly

**Answer: B**



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**90.** The drone develops from an unfertilized egg, its larva is fed upon increasing proportions of

A. royal jelly

B. honey

C. mucus

D. pollen



**Answer: B**



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**91. Which among the following is real product of Honey Bee ?**

A. honey

B. pollen

C. bee wax

D. propolis

**Answer: C**



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**92.** Super ovulation and embryo transplantation are meant for improving

A. human race

B. livestock

C. poultry

D. plants

**Answer: B**



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**93.** Induced breeding is carried out in case of

A. pisciculture

B. apiculture

C. sericulture

D. lac culture

**Answer: A**



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**94.** Which is a product of insect body ?

A. honey wax and silk

B. silk lac and wax

C. royal jelly wax and lac

D. all the above

**Answer: B**



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**95.** Which of the following is not a plant product?

A. hemp

B. silk

C. cotton

D. flax

**Answer: B**



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**96.** Ongole cattle is the general utility breed of

A. orissa

B. andhra pradesh

C. gujarat

D. bihar

**Answer: B**



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**97.** Fowl cholera is caused by the bacteria

A. salmonella

B. mycoplasma

C. pasteurella

D. eimeria

**Answer: C**



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**98. Which of the following is a broiler ?**

A. plymouth

B. busra

C. karaknath

D. brahma

**Answer: A**



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99. Which of the following is not a fresh water fish?

A. Salmon

B. catla

C. clarius

D. mystus

**Answer: A**



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100. Pomato is somatic hybrid between

A. potato and tomato

B. tomato and poppy

C. poppy and potato

D. poppy and tamarind

**Answer: A**



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**101.** Part of flower removed in emasculation is

A. perianth

B. stigma

C. anthers

D. ovules

**Answer: C**



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**102.** Somachlonal variations are obtained through

- A. chemical mutagens
- B. gamma rays
- C. tissue culture
- D. amphimixis

**Answer: C**



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**103.** For producing protoplasts form plant cells which of the following are required ?

- A. amylase and pectinase
- B. cellulase and proteinase
- C. cellulase and pectinase
- D. cellulase and amylase

**Answer: C**



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**104.** Androgenic haploids are produced in anther cultures by

- A. tapetum
- B. anther wall
- C. connectives
- D. young pollen grains

**Answer: D**



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**105.** Disease resistance is obtained through

- A. colchicine treatment
- B. crossing with wild relatives
- C. x ray treatment
- D. hormone treatment

**Answer: B**



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**106.** Triticale is the first man made cereal crop the combination of parents involve its production is triticum and

A. sorghum

B. barley

C. saccharum

D. rye

**Answer: D**



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**107.** Autopolyploidy can be induced artificailly by

A. chloroform

B. colchicine

C. chloroquine

D. colchine

**Answer: B**



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**108.** Improved Indian variety of wheat, carrying genes of dwarfness and higher percentage of protein and lysine is

Or

Which was first Indian dwarf amber gained variety of wheat made from Sonara 64 by  $\gamma$ -rays (gamma rays )

A. lama rojo 64

B. sharbati sonora

C. pusa lerma

D. k 68

**Answer: B**



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**109.** What was the source of first induced mutations ?

A. gamma ray

B. uv irradiation

C. x ray

D. cosmic rays

**Answer: c**



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**110.** Amber colored wheat produced from red coloured Mexican wheat is

- A. white
- B. pink
- C. red
- D. grey

**Answer: C**



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**111.** Improved varieties of wheat suitable for Indian climates have been developed by

A. hybridisation and mutation

B. mutation and cloning

C. cloning of polyploids

D. polyploidy and hybridisation

**Answer: A**



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**112.** Which is the oldest breeding method

A. introducton

B. selection

C. hybridisation

D. mutation breeding



**Answer: B**



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**113.** Both the environment and the genotype are important in the development of

- A. disease
- B. country
- C. plant quarantine
- D. phenotype

**Answer: D**



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114. The set pollinated progeny of a homozygous plant constitutes a

- A. pure line
- B. mass selection
- C. mixed population
- D. heterosis

**Answer: A**



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115. Plants having similar genotypes produced by plant breeding are called

- A. clones

B. haploids

C. sutopolyploids

D. genomes

**Answer: A**



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**116.** Plant piece used in tissue culture is called

A. explant

B. endplant

C. transplant

D. callus

**Answer: A**



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**117.** Who gave the idea that every plant cell is totipotent

A. P.R white

B. E .C cockaing

C. F.C steward

D. G haberlandt

**Answer: D**



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**118.** Nutrient medium is made semisolid by adding

A. 2,4 D

B. agar agar

C. alfa alfa

D. yeast

**Answer: B**



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**119.** An unorganised mass of cells is called

A. totipoten

B. explant

C. callus

D. corax

**Answer: C**



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**120.** The genetically engineered crop which has been recently introduced in India is

- A. Bt Cotton
- B. broad bean
- C. black bean
- D. moong bean

**Answer: A**



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121. Name the Japanese cytologist who cultured anthers for the first time

A. Hanning

B. Shimamura

C. Sumiki

D. Yabuta

**Answer: B**



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122. In order to obtain disease-free plants through tissue culture techniques the best method is

A. embryo

B. anther culture

C. protoplast culture

D. meristem culture

**Answer: D**



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**123.** The best way to obtain bacteria and viruses free plants through tissue culture is

A. microporpaagation

B. seed germinatinn after gamma irradiation

C. stem or shoot tip culture

D. seed germination under aseptic condition



**Answer: C**



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**124.** Maximum genetic variation can be created through

A. introduction hybridization

B. introduction hybridization selection

C. mutation hybridization introduction and genetic engineering

D. selection introduction and mutation

**Answer: C**



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125. Most cultivated plants are

- A. autopolyploids
- B. allopolyploids
- C. aneuploids
- D. haploids

**Answer: B**



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126. Cross between donkey and horse (hinny and male)

- A. dihybrid cross
- B. reciprocal cross
- C. monohybrid cross

D. polyhybrid cross

**Answer: B**



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**127.** In a colony of honey bee family there are

- A. lots of workers, one drone, two queen
- B. lots of worker ,one drones, one queen
- C. few workers, few drones, one queen
- D. lots of worker, lots of drones, one queen

**Answer: D**



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128. Highest milk producing breed is

- A. jersey
- B. sahiwal
- C. friesian holstein
- D. none of these

**Answer: C**



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129. Aflatoxicosis of poultry is caused by

- A. canida albicans
- B. aspergillus flavus

C. aspergillus fumigatus

D. all of these

**Answer: B**



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**130.** Pollen basket is

A. a basket made of pollen

B. a simple basket

C. Depression on leg of honey bee

D. Used for locomotion

**Answer: D**



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131. Protein present in silk fibres are

- A. a basket made of pollen
- B. a simple basket
- C. sac in flowers where pollen are carried
- D. cavity in hind leg of a worker bee

**Answer: A**



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132. MOET is a method of

- A. fish cultivation

B. birth control in humans

C. cloning in sheep

D. hybridization in cattle

**Answer: D**



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**133.** The fish food possesses the lowest level of

A. acitin

B. chloesterol

C. mysoin

D. tissue fluid

**Answer: B**



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**134.** Which is the major crop in asia ?

A. rice

B. sugarcane

C. jowar

D. millet

**Answer: A**



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**135.** Which one of the following plants foud in india is an escape from the quarantine ?



A. coffee plant

B. eichhornia

C. congress grass

D. cocoa

**Answer: C**



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**136.** Potato is a native of

A. brazil

B. peru

C. panama

D. mexico

**Answer: B**



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**137.** Match the following columns and choose the correct option

<b>Column I</b>	<b>Column II</b>
<b>A</b> Mutation breeding	<b>1.</b> Laborious and expensive process to obtain gene variation
<b>B</b> Selection	<b>2.</b> Hybrid vigour can be maintained for several generations
<b>C.</b> Hybridization	<b>3.</b> Simplest and easiest method of plant improvement
<b>D.</b> Introduction	<b>4.</b> Oldest breeding method
	<b>5.</b> Quick method to obtain gene variation

- A.  $A \ B \ C \ D$   
5 4 1 2
- B.  $A \ B \ C \ D$   
5 4 1 3
- C.  $A \ B \ C \ D$   
4 2 3 1
- D.  $A \ B \ C \ D$   
1 2 4 5

**Answer: B**



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**138.** Introduced plants in new localities must show adaptations called

- A. selection
- B. acclimatization
- C. modification

D. propagation

**Answer: B**



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**139.** The scientific name of zebu is

A. *bos indicus*

B. *bombyx mori*

C. *bubalus bubalis*

D. *gallus domesticus*

**Answer: A**



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140. Which method of plant breeding resulted in the production of hessian fly resistant wheat variety ?

- A. intrageneric hybridization
- B. back cross
- C. bulk mehtod
- D. intraspecific hybridization

**Answer: A**



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141. *Triticum aestivum* (Bread wheat) is

- A. triploid with 21 chromosomes

B. hexaploid with 42 chromosomes

C. tetraploid with 30 chromosomes

D. diploid with 14 chromosomes

**Answer: B**



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**142.** Which of the following is a disease resistant, high yielding breed of poultry developed in Karnataka?

A. aseel

B. white leg horn

C. giriraga

D. plymouth rock

**Answer: A**



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**143.** Chicks of the first two weeks in brooder hoven are usually susceptible to one the following:

- A. marek 's disease
- B. fowl fox
- C. ranikhet disease
- D. gomboro disease

**Answer: C**



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144. Honey is:

- A. alkaline
- B. basic after some days
- C. acidic
- D. neutral

**Answer: D**



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145. To increase lactation/milk yield, cow is given

- A. stilbestrol
- B. sorbitol
- C. gonadotropin



D. prolactin

**Answer: D**



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**146.** Most widely reared Honey Bee species of india is

A. *apis indica*

B. *apis dorsata*

C. *apis florea*

D. *apis mellifera*

**Answer: A**



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147. Hybrid vigour is mostly due to

A. heterozygosity

B. homozygosity of pure character

C. superiority of all the genes

D. mixing up of cytoplasm of the male with that of female  
exclusively

**Answer: A**



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148. Pure line breed refers to

A. heterozygosity and linkage

B. homozygosity and independent assortment

C. heterozygosity only

D. homozygosity only

**Answer: D**



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**149.** Drones in a colony of honey bees originate by

A. thelotoky

B. arrhenotoky

C. amphitoky

D. deuterotoky

**Answer: C**



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**150.** Which of the following is an example of hybrid vigour?

- A. mule
- B. doneky
- C. horse
- D. neoplina

**Answer: A**



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**151.** Isinglass (gelatine-like transparent substance) is obtained from

A. some snakes

B. some fishes

C. some aves

D. none of these

**Answer: B**



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**152.** Match the breeds of cattle given under column I with the place of their origin listed under column II choose the answer which gives the correct combination of alphabets of the two

columns

<b>Column I (Cattle Breed)</b>	<b>Column II (Place of Origin)</b>
A. Amrithmahal	1. Hassan and Tumkur districts
B. Ongole	2. Coimbatore district
C. Khillari	3. Nellore and Guntur districts
D. Hallikar	4. Chikmangalore & Chitradurga districts 5. Satara and Sholapur districts

A. 4 3 5 1

B. 2 4 5 1

C. 4 5 2 3

D. 2 4 1 5

**Answer: A**



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**153.** A disease infecting camel is

A. surra

B. pullorum

C. rinderpest

D. encephalomalacia

**Answer: A**



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**154.** Separation of sick and nonproductive birds from healthy and productive birds is known as:

A. culling

B. deworming

C. dubbing

D. cannibalism

**Answer: A**



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**155.** Coccidiosis in poultry is caused by

A. virus

B. bacteria

C. protozoa

D. nematode



**Answer: C**



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**156.** Which one of the following combination is generally recommended for composite fish farming in india

- A. catla , labeo , cirrhinus
- B. catla, cyprinus , clarius
- C. clarius ,. Channa cyrinus
- D. cirrhinus cyprinus channa

**Answer: A**



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157. Colchicine brings about :

- A. chromosome aberration
- B. duplication of chromosomes
- C. gene mutation
- D. quick replication

**Answer: B**



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158. The technique of obtaining large number plantlets by tissue culture method is called

- A. organ culture
- B. micropropagation

C. macropropagation

D. plantlet culture

**Answer: A**



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**159.** Haploid plantlets can be produced by

A. pollen culture

B. cotyledon culture

C. embryo culture

D. meristem culture

**Answer: A**



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**160.** Physical mutagens are

- A. x rays
- B. x rays and gamma rays
- C. EMS and x rays
- D. sodium azide and gamma rays

**Answer: B**



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**161.** Caeral and millet proteins are

- A. deficient in lysine and tryptophan

B. deficient in lysine

C. rich in lysine and deficient in tryptophan

D. deficient in lysine and rich in tryptophan

**Answer: A**



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**162.** Indian Sugarcane Breeding Research Institute was established

A. delhi

B. lucknow

C. bhopal

D. coimbatore

**Answer: D**



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**163.** Which plant is cultivated by tissue culture technique ?

A. pear

B. apple

C. citrus

D. guava

**Answer: B**



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**164.** Mutations in red grained sonara 64 variety of wheat resulted in the amber grain colour mutant

A. kalyan

B. sharbati sonaora

C. sonalika

D. lerma rojo

**Answer: B**



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**165.** IR-8 variety of paddy is introduced in india from:

A. taiwan

B. japan

C. phillipines

D. bangladesh

**Answer: C**



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**166. Bird flu affects**

A. poultry

B. migratory birds

C. duck

D. all of these

**Answer: D**





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**167.** Normal borlaug, father of green revolution, developed new varieties of

- A. wheat
- B. rice
- C. sugarcane
- D. mango

**Answer: A**



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**168.** In cloning of cattle a fertilized egg is taken out of the mother's womb and

- A. in the eight cell stage cells are separated and cultured until small embryos are formed which are implanted in to the womb other cows
- B. I the eight cell stage the individual cells are separated under electrical field for further development in culture media
- C. from this up to eight identical twins can be produced
- D. the egg is divided in to 4 pairs of cells which are implanted in to womb to other cows

**Answer: A**



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**169.** Which one of the following is a viral disease of poultry?

A. coryza

B. new castle disease

C. pasteurlelosis

D. slamonellosis

**Answer: B**

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**170.** Which one of the following paris is mis matched ?

A. apis indica - honey

B. kenia lacca - lac

C. bombyx mori - silk

D. pila gobosa - pearl

**Answer: D**



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**171.** Mature differentiated cells revert to meristematic activity to form callus by

A. dedifferentiation

B. differentiation

C. cyto differentiation

D. redifferentiation

**Answer: A**



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**172.** Which of the following is incorrectly matched ?

A.

Explant      Excised plant part used for callus formation

B. Cytokinin      Root initiation in callus

C.

Somatic embryo      Embryo produced from a vegetative cell

D. Anther culture      *Haploidplants*

**Answer: B**



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**173.** Sterilization of tissue culture medium is done by

- A. autoclaving of medium at  $120^{\circ} C$  for 15 minutes
- B. filtering the medium through fine sieve
- C. mixing the medium with antifungal agents
- D. Keeping the medium at  $-20^{\circ} C$

**Answer: A**



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**174.** It shows correct chronological order of the events occurring during callus culture

A. callus - cell division explant - cytokinin - acquire  
meristematic activity

B. explant - callus -cell division - cytokinins - cells acquire  
meristematic property

C. explant -cell division -callus -cytokinins -cells acquire  
meristematic property

D. callus - explant -cell division -cytokinin -cell acquire  
meristematic property

**Answer: C**



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**175.** which of the following crops have been brought to India  
from new world?

A. cashew nut potato rubber

B. mango tea

C. ream rubber mango

D. coffee

**Answer: A**



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**176.** First man made cereal is:

A. octaploid

B. hexaploid with 42 chromosomes

C. both 1 and 2

D. diploid



**Answer: C**



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**177.** Which one is being tried in india as biofuel substitute for fossil fuels?

A. jatropha

B. azadirachta

C. musa

D. aegilops

**Answer: A**



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178. The plant which is used for studying hybrid vigor or heterosis is

A. maize

B. pea

C. Datura

D. none of these

**Answer: A**



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179. A hybrid where the cytoplasm of two parent cells are fused by retaining only one parental nucleus is called

A. asymmetric somatic hybrid

B. cybrid

C. an interbreed

D. symmetric somatic hybrid

**Answer: B**



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**180.** Emasculation is concerned with

A. hybridization

B. clonal selection

C. mass selection

D. pure line selection

**Answer: A**



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**181.** India rose wood tree is a common name of

A. acacia

B. shorea

C. delbergia

D. eucalytpus

**Answer: C**



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**182.** Somatic hybridization is a technique of:

- A. natural breeding
- B. natural pollination
- C. artificial pollination
- D. somatic cells hybridization

**Answer: D**



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**183.** Which is not a major carp?

- A. catla catla
- B. labeo rohita
- C. puntius ticto
- D. cirrhinus mrigala

**Answer: C**



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**184.** Which one of the following is the American poultry breed?

A. australorp

B. minorca

C. aseel

D. rhode island red

**Answer: D**



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**185.** In honey the percentage of maltose and other sugar is

A. 9.2

B. 8.81

C. 10.5

D. 11.2

**Answer: B**



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**186.** Choose the minor carp from the following :

A. *cyprinus carpio*

B. *anguilla* sp

C. labeo bata

D. ctenophryngodon idella

**Answer: C**



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**187.** Assertion : Ranikhet disease is the disease of poultry.

Reason : It is caused by a virus.

A. statement a is wrong and b is correct

B. both the statement a and b are wrong

C. both the statement a and b are correct

D. statement a is correct and b is wrong

**Answer: C**





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**188.** Polyploidy can be produced artificially by

- A. colchiicine
- B. inbreeding
- C. line breeding
- D. self pollination

**Answer: A**



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**189.** Recombination is involved in the process of :

- A. cytokinesis
- B. spindle formation
- C. crossing over
- D. chromosome duplication

**Answer: C**



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**190.** Shakti rattan and protina are three important lysine rich varieties of

- A. rice
- B. pulses
- C. wheat

D. maize

**Answer: D**



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**191.** International Rice Research Institute (IRRI) is located at :

A. japan

B. philippiness

C. mexico

D. india

**Answer: B**



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**192.** Totipotency means:

- A. flowering in an culture medium
- B. development of fruit from a flower in a culture
- C. development of an organ form a cell in culture medium
- D. all the above

**Answer: C**



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**193.** The plant of *Triticum aestivum* is

- A. haploid
- B. diploid

C. tetraploid

D. hexaploid

**Answer: D**



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**194.** Assertion : Some asexual variations may be present in plants produced from callus.

Reason : Somaclonal variations are caused due to recombination during meiosis.

- A. both a and r are true and r is the correct explanation for a
- B. both a and r true but r is not the correct explanation of a
- C. a is true but r is false
- D. a is false but r is true

**Answer: C**



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**195.** In poultry, first deworming is usually done around this age

- A. 4 weeks
- B. 8 weeks
- C. 12 weeks
- D. 16 weeks

**Answer: B**



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**196.** An improved variety of transgenic basmati rice

- A. does not require chemical fertilizers and growth hormones
- B. gives high yield and is rich in vitamin a
- C. is completely resistant to all insect pests and diseases of paddy
- D. gives high yield but has no characteritic aroma

**Answer: B**



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**197.** Which is used in gene cloning

A. mic,epods

B. lomasomes

C. mesosomes

D. plasmids

**Answer: D**



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**198.** Bovine spongiform encephalopathy is a disease caused by prions in

A. sheep

B. cow

C. potato



D. man

**Answer: B**



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**199.** Breeding of crops with high levels of minerals , vitamins and proteins is called

A. somatic hybridization

B. biofortification

C. biomagnification

D. micropropagation

**Answer: B**



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200. The plant part which is used to culture is called

- A. explant
- B. somaclone
- C. inoculant
- D. clone

**Answer: A**



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201. "Jaya" and "Ratna" developed for green revolution in India are the varieties of :-

- A. maize

B. rice

C. wheat

D. bajara

**Answer: B**



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**202.** Himgiri developed by hybridisation and selection for disease resistance against rust pathogens is a variety of

A. chilli

B. maize

C. sugarcane

D. wheat

**Answer: D**



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**203.** When two unrelated individuals or lines are crossed, the performance of  $F_1$  hybrids is often superior to both its parents. The phenomenon is called

- A. heterosis
- B. transformation
- C. splicing
- D. metamorphosis

**Answer: A**



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**204.** Which one of the following shows maximum genetic diversity in India

Or

Which one has the largest species variety India

A. groundnut

B. rice

C. maize

D. mango

**Answer: B**



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**205.** Study statement a-d (about organic farming) and find out the correct ones.

- (a) Utilises genetically modified crops like Bt cotton
- (b) Uses only naturally produced input like compost
- (c) Does not use pesticide and urea
- (d) Produces vegetables rich in vitamins and minerals

A. b c and d

B. c and d only

C. b and c only

D. a and b only

**Answer: C**



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206. Which one of the following is a breed of cattle ?

A. ayrshire

B. ghaguas

C. karakanath

D. scampi

**Answer: A**



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207. Which one of the following poultry birds is not an English breed ?

A. sussex

B. austtralorp

C. orpington

D. minorca

**Answer: D**



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**208.** Human proteins can be produced in the milk or semen of farm animals. True or false?

A. true

B. false proteins cannot be produced in milk

C. false proteins cannot be produced in semen

D. false animals are not used for protein production

**Answer: A**





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**209.** A semi-dwarf variety of wheat is

- A. IR-8
- B. sonalika
- C. triticum
- D. saccharum

**Answer: B**



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**210.** Explant required for virus free culture is

A. root

B. shoot tip

C. leaf

D. leaf and root

**Answer: B**



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**211.** In plant breeding programme, the entire collection (of plants/seed) having all the diverse alleles for all genes in a given crop is called

A. evaluation and selection of parents

B. germplasm collection

C. selection fo superior recombinants

D. cross hybridiation among the selected parents

**Answer: B**



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**212.** In vitro clonal propagation in plants is characterized by

A. microscopy

B. PCR and RAPD

C. nothern blooting

D. electrophoresis and HPLC

**Answer:**



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**213.** To obtain virus free healthy plants from a diseased one by tissue culture technique, which part/parts of the diseased plant will be taken ?

- A. epidermis only
- B. apical meristem only
- C. palisade parenchyma
- D. both apical and axillary meristems

**Answer: D**



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**214.** Which of the following enhances or induces fusion of protoplasts

A. polyethylene glycol and sodium nitrate

B. IAA and kinetin

C. IAA and gibberillins

D. sodium chloide and potassium chloride

**Answer: A**



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**215.** A technique of micropropagation is

A. somatic embryogenesis

- B. protoplast fusion
- C. embryo culture
- D. somatic hybridization

**Answer: A**



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**216.** Golden rice is a genetically modified crop plant where the incorporated gene is meant for biosynthesis of:

- A. vitamin B
- B. vitamin C
- C. omega 3
- D. Vitamin A

**Answer: D**



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**217.** Outbreeding is an important strategy of animal husbandry because it

- A. helps in accumulation of superior genes
- B. is useful in producing purelines of animals
- C. is useful in overcoming inbreeding depression
- D. exposes harmful recessive genes that are eliminated by selection

**Answer: C**



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**218.** Interspecific hybridization is the mating of

- A. animals within same breed without having common ancestors
- B. two different related species
- C. superior males and femals of different breeds
- D. more closely related individuals within same breed for 4 - 6 generations

**Answer: B**



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**219.** Among the following edible fishes, which one is a marine fish having rich source of omega -3 fatty acids ?

A. mystus

B. mangur

C. mrigala

D. mackerel

**Answer: D**



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**220.** Homozygous purelines in cattle can be obtained by

A. mating of related individuals of same breed

B. mating of unrelated individuals of same breed

C. mating of individuals of different breed

D. mating of individuals of different species

**Answer: A**



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