



BIOLOGY

BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

STRATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION

Exercise

1. 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



2. Artificial selection to obtain cows yielding higher milk output represents

A. stabilising selection as it stabilises this character in the population

B. directional as it pushes the mean of the character in one direction

C. disruptive as it splits the population into two one yielding higher output and the

other lower output

D. stabilising followed by disruptive as

stabilises the pollution of produce

higher yielding cows

Answer: B



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3. A system of rotating crops with legume or grass pasture to improve soil structure and fertility is called

- A. contour farming
- B. strip farming
- C. shifting agriculture
- D. ley farming

Answer: D



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4. Interspecific hybridisation is the mating of

A. animals within same breed without having common ancestors

B. two different unrelated species

C. superior males and females of different breeds

D. more closely related individuals within same breed for 4-6 generations

Answer: B



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5. Among the following edible fishes which one is marine fish having rich source of omega-3 fatty acids

A. Mystus

B. mangur

C. mrigala

D. mackerel

Answer: D



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6. Outbreeding is an important strategy of animal husbandry because it

A. help 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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7. 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. apical meristem only

B. palisade parenchyma

C. both apical and axillary meristems

D. epidermis only

Answer: C



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8. 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. selection of superior recombinants

B. cross hybridisation among the selected
parents

C. evalution and selection of parents

D. germplasm collection

Answer: D



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**9. which one of the following isa case of wrong
matching?**

A. somatic hybridisation fusion of two
diverse cells

B. vector DNA site for RNA sythesis

C. Micropropagation -In vitro production of
plants in large numbers

D. callus unorgainised mass of cells
produced in tissue culture

Answer: B



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10. Consider the following four statements (I-II) and select the option which includes all the correct ones only.

- A. statements III and IV
- B. statements I and III and IV
- C. statement II,III and IV
- D. statements I and II

Answer: D



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11. Java and Ratna developed for green revolution in India are the varieties of

A. maize

B. rice

C. wheat

D. bajra

Answer: B



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12. Himgiri developed by hybridization 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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13. consider the following statements (I-II)
about organic farming.

A. II,III and IV

B. III and IV

C. II and III

D. I and II

Answer: C



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14. When two unrelated individuals or lines are crossed, the performance of F_1 hybrid is often superior to both its parents. This phenomenon is called:

A. transformation

B. splicing

C. metamorphosis

D. heterosis

Answer: D



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15. Mutations can be induced with

- A. IAA
- B. ethylene
- C. gamma radiations
- D. infra red radiations

Answer: C



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16. Breeding of crops with high levels of minerals vitamins and proteins called

A. somatic hybridisation fusion of two
diverse cells

B. biofortification

C. bimoagnification

D. micropropagation

Answer: B



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17. Somaclones are obtained by

- A. plant breeding
- B. irradiation
- C. genetic engineering
- D. tissue culture

Answer: D



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18. Which is linked to discovery of Bordeaux mixture as fungicide ?

- A. Loose smut of wheat
- B. Black rust of wheat
- C. Bacterial leaf blight of rice
- D. Downy mildew of grapes

Answer: D



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19. Chick pea is being grown in area where bacterial blight is common. What measures (a-d) should be taken

(a) Spraying Bordeaux mixture

(b) Controlling Bordeaux mixture

(c) Controlling insect or vector of pathogen

(d) use seeds of disease resistant variety

A. III and IV

B. I and IV

C. II and III

D. I and II

Answer: B



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20. In cloning of cattle a fertilised 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

B. in 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 the womb of other cows

Answer: A



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21. Compared to a bull a bullock is docile because of

A. higher levels of cortisone

B. lower levels of blood testosterone

C. lower levels of adrenaline /noradrenaline
in its blood

D. higher levels of thyroxine

Answer: B





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

A. croyza

B. new castle disease

C. pasteurellosis

D. salmonellosis

Answer: B



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23. Which one of the following pair is mismatched?

A. *pila golbosa* - pearl

B. *apis indica* - honey

C. *kenia lacca* - lac

D. *bombyx mori* - silk

Answer: A



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24. Farmers in a particular region were concerned that premature yellowing of leaves of a pulse crop might cause decrease in the yield. Which treatment could be most beneficial to obtain maximum seed yield?

A. frequent irrigation of the crop

B. Treatment of the plants with cytokinins
along with a small dose of nitrogenous
fertiliser

- C. Removal of all yellow leaves and spraying the remaining green leaves with 2,4,5 trichlorophenoxy acetic acid
- D. application iron and magnesium to promote synthesis of chlorophyll

Answer: D



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25. In maize, hybrid vigour is exploited by:

A. inducing mutations

B. bombarding the protoplast with DNA

C. crossing of two inbred parental lines

D. harvesting seeds from the most
productive plants

Answer: C



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26. In order to obtain virus-free plants through tissue culture the best method is

- A. meristem culture
- B. protoplast culture
- C. embryo rescue
- D. anther culture

Answer: A



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27. Golden rice is a transgenic crop of the future with the following improved trait:

- A. high lysine (essential amino acid) content
- B. insect resistance
- C. high protein content
- D. high vitamin A content

Answer: D



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28. crop plants grown in monoculture are

- A. low in yield
- B. free from intraspecific competition
- C. characterised by poor root system
- D. highly prone to pests

Answer: D



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29. Triticale the first man made cereal crop has been obtained by crossing wheat with

A. rye

B. pearl millet

C. sugacane

D. barley

Answer: A



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30. Three crops that contribute maximum to global food production are

- A. wheat ,rice and maize
- B. wheat ,maize and sorghum
- C. rice,maize and sorghum
- D. wheat ,rice and barley

Answer: A



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31. Norman Borlaug is associated with

- A. green revolution
- B. yellow revolution
- C. white revolution
- D. blue revolution

Answer: A



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32. why is vivipary an undesirable character for annual crop plants?

A. it reduces the vigour of plant

B. the seeds cannot be stored under normal conditions for the next season

C. the seeds exhibit long dormancy

D. it adversely affects the fertility of the plant

Answer:



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33. Which of the following is generally used for induced mutagenesis in crop plants

A. x rays

B. uv (260 nm)

C. gamma rays (from cobalt 60)

D. alpha particles

Answer: C



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34. The world's highly prized wool yeilding 'Pashmina' breed is :

A. goat

B. sheep

C. goat sheep cross

D. kashmir sheep afghan sheep cross

Answer: A



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35. India wheat yield revolution in the 1960s was possible primarily due to

A. hybrid seeds

B. increased chlorophyll content

C. decreased chlorophyll content

D. mutation resulting in plant height reduction

Answer: D



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36. which of the following crops have been brought to india from new world?

A. cashewnut ,potato , rubber

B. mango,tea

C. tea , rubber , mango

D. coffee

Answer: A



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37. What is best pH of soil for cultivation

A. 3.4-5.4

B. 6.5-7.5

C. 4.5-8.5

D. 5.5-6.5

Answer: C



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38. Before the European invaders which vegetable was/were absent in india?

- A. potato and tomato
- B. capsicum and brinjal
- C. maize and bottle gourd
- D. bitter gourd

Answer: A



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39. Which statement is correct about center of origin of plants?

- A. more diversity in varieties
- B. frequency of dominant gene is more
- C. climatic conditions more favourable
- D. none of the above

Answer: A



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40. One of the most important reason why wild plants should thrive is that these are good sources of

A. unsaturated edible oils

B. highly nutritive animals feed

C. genes for resistance to diseases and
pests

D. rare and highly sought after fruits of
medical improtance

Answer: C



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41. The new varieties of plants are produced by

A. selection and hybridisation

B. selection and introduction

C. mutation and selection

D. introduction and mutation

Answer: A



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42. The reason for vegetatively reproducing crop plants for maintaining hybrid vigour is that

- A. they can be easily propagated
- B. they have a longer life span
- C. they are more resistant to disease
- D. once a desired hybrid is produced there are no chances of losing it

Answer: D



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43. Which one among the following chemical is used for causing defoliation of forest trees

A. alachlor

B. phosphonate

C. malic hydrazide

D. 2,4-D

Answer: D



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44. Which of the following will lose its economic value, if its fruits are produced by induced parthenocarpy?

A. grapes

B. pomegranate

C. orange

D. banana

Answer: B



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45. Of the world's top five crops (in terms of annual production)

A. three belong to poaceae (gramineae)

one of leguminosae one to solanaceae

B. four belong to poaceae ,one to

leguminosae

C. four belong to poaceae one to solanaceae

D. all five belong to poaceae

Answer: C



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46. Honey is

A. acidic

B. neutral

C. alkaline

D. basic after some days

Answer: A



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47. High milk yielding varieties of cows are obtained by

A. super ovulation

B. artificial insemination

C. use of surrogate mother

D. all of the above

Answer: A



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48. Pebrine is a disease of

A. honeybee

B. fish

C. silkworm

D. lac insect

Answer: C



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49. Pasteurisation of milk involve heating for

- A. 60 min at about 90°
- B. 30 min at about 50°
- C. 300 min at about 65°
- D. 60 min at about 100°

Answer: C



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50. The earliest animal to have been domesticated by man was most likely the

A. horse

B. cow

C. dog

D. pig

Answer: C



51. The long term prospects for a truly human civilisation depend in a large measure on

- A. the ability of humanity to moderate its fecundity
- B. increasing the food production
- C. colonisation of under polulated area
- D. control of human diseases

Answer: D



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52. In silkworm, silk is the product of,

- A. cuticle of the larva
- B. cuticle of the adult
- C. salivary gland of the larva
- D. salivary gland of the adult

Answer: C



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53. Haploid plant cultures are got from

A. leaves

B. root tip

C. pollen grain

D. buds

Answer: C



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54. Most of our crop plants are

- A. autopolyploid in origin
- B. allopolyploid in origin
- C. mixed genotypic in origin
- D. ehterozyous in origin

Answer: A



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55. Haploids are preferred over diploids for mutation studies because in haploids:

- A. recessive mutation express immediately
- B. induction of mutation is easier
- C. culturing is easier
- D. dominant mutation express immediately

Answer: A



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56. In crop improvement programme , haloids are important because they

- A. require one half of nutrients
- B. are helpful in study of meiosis
- C. grow better under adverse conditions
- D. form perfect homozygous

Answer: D



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