



## **BIOLOGY**

# **BOOKS - JMD BIOLOGY (PUNJABI ENGLISH)**

## **Strategies for Enhancement in in Food production**

**Exercise**

1. which animal is the earliest to be domesticated?

A. cow

B. cat

C. dog

D. buffalo

**Answer: C**



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2. angona wool is obtained from

A. Sheep

B. rabbit

C. Yak

D. Goat

**Answer: B**



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3. in cloning of cattle a fertilized egg is taken out of mother's womb and

A. in the 8 cell stage, cells are separated and cultured until small embryos are formed which are implanted into the womb of other cows

B. in eight stage of individuals cells are separated under electrical field for further development in culture media

C. from this upto eight individual twins can be produced

D. the egg is divided into four pairs of cells which are implanted into the womb of other cows

**Answer: A**



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**4. which fowl is used for cock fighting ?**

A. Assel

B. Bursa

C. Ghagus

D. Brahma

**Answer: A**



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**5. the silk of Bombyx mori is obtained from**

A. Cocoon

B. Nymph

C. Caterpillar

D. Trochophore

**Answer: C**



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**6.** which of the the following statement is correct?

- A. apis dorsata is is most commonly used  
for honey production
- B. Karl Frisch discovered bee dance
- C. honey is rich in glucose and maltose  
sugars
- D. all of the above

**Answer: B**



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7. surrogate mother is used for

A. induction of lactation

B. artificial insemination

C. future mother with transplanted embryo

D. artificial inseminated female

**Answer: C**



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8. the chromosome complement of honey bees develop parthenogenetically from unfertilized ova is

A. haploid

B. diploid

C. triploid

D. polyploid

**Answer: A**



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9. "concentrates" used as feed for cattle include

A. broken grams and cereals

B. Millets

C. Gram barn

D. all of the above

**Answer: D**



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10. fish introduced in India by foreigners is

- A. Labeo rohita
- B. Pomphret
- C. Clarius betrachus
- D. Mystus singhala

**Answer: B**



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**11.** match the names of branches of biology listed under column I with the field of study given under column II

column I, branch of science (A.Palynology, B. oncology, C. psychology, D.Sericulture), column II, field of study(p.silkworms, q. pollens, r. cancer, s. algae)

A. A=s, B=r, C=q, D=p

B. A=r, B=q, C=s, D=p

C. A=s, B=q, C=r, D=p

D. A=q, B=r, C=s, D=p

**Answer: D**



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**12.** Cow's milk is yellowish in colour because of the presence of

A. riboflavin

B. biotin

C. large amount of fat

D. Fe

**Answer: A**



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**13.** lac is the secretion of

- A. Epidermal glands
- B. Hypodermal glands
- C. Salivary glands
- D. Anal glands

**Answer: A**



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**14.** the cow until she gives birth is called

A. Steer

B. Colt

C. Heifer

D. None of these

**Answer: B**





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15. Indian Veterinary Research institute is situated in

A. Lucknow

B. Karnal

C. Kerala

D. Izzatnagar

**Answer: D**



16. cultivation of crops is

A. Horticulture

B. Agriculture

C. Olericulture

D. Floriculture

**Answer: B**



17. Pusa Gaurav is variety of

A. Okra

B. Brassica

C. Tomato

D. potato

**Answer: B**



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**18.** the first state which achieve the goal green revolution in India was

A. U.P.

B. W. Bengal

C. Kerala

D. Punjab

**Answer: D**



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19. all the followings are proper plans for increasing agricultural production except

A. expansion of irrigation facilities

B. increase of application of fertilizers

C. cutting forest to add land for cultivation

D. mechanization of the various aspects of farming

**Answer: C**



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20. wild varieties of plants must be conserve  
to

A. maintain ecosystem

B. feeding wild animals

C. future revolution

D. incorporate useful traits in future crop  
varieties.

**Answer: D**



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21. FRI(forest research institute) is situated at

A. Madras

B. Andaman

C. Dehradun

D. Nanital

**Answer: C**



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22. wheat variety having high protein content is

- A. Kalyan sona
- B. Himgiri
- C. Sharbati Sonora
- D. Atlas 66

**Answer: D**



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23. improved varieties of wheat suitable for Indian climate have been developed by

- A. hybridization and mutation
- B. mutation and cloning
- C. cloning of polyploids
- D. polyploidy and hybridization

**Answer: D**



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24. Pusa Komal variety of cowpea is resistant to which of the following disease?

A. White rust of crucifers

B. TMV

C. Bacterial blight

D. Black rot

**Answer: C**



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25. which of the following varieties of Bhindi is resistant to the attack of shoot and fruit borer?

A. Pusa *A* – 4

B. Pusa *Sam* – 3

C. Pusa Gaurav

D. Pusa *Sem* – 2

**Answer: A**



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## 26. Fill in the blanks

more than ..... of the world livestock population is in India and China.



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## 27. Fill in the blanks

breeding between animals of the same breed is called .....



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## 28. Fill in the blanks

Hisardale is a new breed of .....



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## 29. Fill in the blanks

most common species of bee .....



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## 30. Fill in the blanks

..... is semi dwarf wheat variety.



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**31. Fill in the blanks**

..... is semi dwarf rice variety.



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**32. Fill in the blanks**

..... is a source of single cell protein.



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### 33. Fill in the blanks

capacity to generate a whole plant from any cell or explant is called .....



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### 34. Fill in the blanks

..... is a variety of chilli



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### 35. Fill in the blanks

cross between different breeds is called .....



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### 36. True and False Type Questions

the increased superiority of hybrids over the parents is called heterosis.



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### 37. True and False Type Questions

the technique of removal of ovules from female parents before anthers burst is called emasculation



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### 38. True and False Type Questions

the main target of plant breeding is to develop new crop varieties superior in all aspects as compared to existing types.





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### 39. True and False Type Questions

process of Nutrition is most commonly used for creation of genetic variation.



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### 40. True and False Type Questions

plant breeding is both art and science.



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## 41. True and False Type Questions

during emasculation process, stigma of flower is removed.



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## 42. True and False Type Questions

Roughage is rich in nutrients, while concentrate is rich in fibres.



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### 43. True and False Type Questions

most important breeding method is inbreeding.



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### 44. True and False Type Questions

Jersey is an Indian breed of milch cow



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#### 45. True and False Type Questions

more swarming variety of honey bees produces more honey.



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46. why are the various components of the medium used for propagation of an explant in vitro?



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**47.** list the main step of plant breeding.



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**48.** what is cryopreservation? Explain.



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**49.** list the important method of crop improvement.



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