

Animal husbandry and Apiculture

1. A cross between White Leghorn and Rhode Island Red is called
a). Out crossing b). Cross breeding c). Line breeding d). Close breeding
2. Find the wrongly matched
a). Ian Wilmut – Dolly
b). V.M. Ingram – Sickle cell haemoglobin
c). Archibald Garrod – Alkaptonuria
d). Beadle and Tatum – One gene one polypeptide chain
3. The offspring that is produced due to mating of animals of different breeds is called
a). Out cross b). Mule c). Hinny d). Cross breed
4. The number of chromosomes present in each somatic cell of a male, worker and queen honey bees respectively are
a) 16-16-32 b) 32-16-16 c) 16-32-32 d) 16-32-16
5. In animals Totipotency is exhibited by
a). Gametes b). Meristematic cells c). Zygote d). Cancer cell
6. The scientific name of “Scamper”
a) Macrobrachium rosenbergii b) *Penaeus monodon*
c) *Macrobrachium malcomsonii* d) *Penaeus indicus*
7. Which of the following the character of good layer
a) Clean and perfect feathers b) Small breast bone
c) Thin, soft, oily skin d) Round and dry vent
8. The clone of the lamb produced by Ian Wilmut resembles
a). To the mother which gave birth to it b). To the lamb from which udder cell is taken
c). To the mother into which blastocyst is implanted d). To the father used for fertilization
9. The number of secondary oocytes ovulated in super ovulation
a). 8 to 32 b). 6 to 8 c). 1 to 4 d). Many
10. A mule can be obtained by crossing
a). Jack and Jennet b). Stallion and mare c). Jack and mare d). Stallion and Jennet

11. Progeny test is conducted to assess

- a). Sex limited genes present in females
- b). Sex limited genes present in males
- c). Sex linked genes present in males
- d). Sex influenced genes present in males

12. The following are the statements with regards to out breeding

- I. It is the breeding of unrelated animals
- II. It is highly effective for characters that are under the control of genes that are polygenic and cumulative
- III. It favours genetic uniformity.

The correct statements are

- a). I & II
- b). II & III
- c). I & III
- d). All

13. To achieve totipotency 'fused cell' of animals should possess

- a). Cytoplasm of egg cell and nucleus of sperm
- b). Cytoplasm of egg cell and nucleus of somatic cell
- c). Cytoplasm of zygote and nucleus of sperm
- d). Cytoplasm of udder cell and nucleus of egg cell

14. A queen honeybee, heterozygous for a dominant trait mates with drone that shows the same trait.

Which of the following is true about her offspring/

- a). All females express dominant trait and males exhibit dominant and recessive traits in 1:1 ratio.
- b). All males express dominant trait and females exhibit dominant and recessive traits in 1:1 ratio
- c). All females express dominant trait and all males express recessive trait
- d). Both males and females exhibit dominant and recessive traits in 1:1 ratio each

15. When a cow is crossed to a bull and the female progeny is found to be high yielding for milk than its mother, it can be inferred that

- a). Genes for high milk yield are more in number in female parent than that of male
- b). More number of high milk yield genes are inherited from male parent than female
- c). More number of high milk yield genes are inherited from female than male
- d). High milk yield genes are inherited only from male parent but not from female

16. The lamb (Dolly) produced by organism cloning done by Ian Wilmut is genetically and phenotypically identical to

- a) Surrogate Scottish black face ewe
- b) Scottish black face ewe from which an egg cell was collected
- c) Finn Dorset ewe from which the udder cells were collected
- d) Scottish black face ewe from which udder cell was collected

17. In poultry birds which of the following diseases can spread through contaminated food and water

- a) Infectious bursitis, Infectious coryza and Aflatoxicosis
- b) Roup disease, CRD and Moniliasis
- c) New castle disease, Fowl cholera and Aspergillosis
- d) Marek's diseases, Gumboro disease and Thrush

18. Read the following and select the correct combination

Disease	Pathogen	Symptoms of disease
A) Gumboro	IBD virus	Enlargement of bursa of Fabricius
B) Chronic respiratory disease	<i>Haemophilus gallinarum</i>	Nasal discharge with foul smell
C) Aspergillosis	<i>Aspergillus flavus</i>	Reduced immunity
D) Fowl cholera	<i>Pasteurella avicida</i>	Green diarrhoea
a) A and B	b) B and C	c) C and D
		<u>d) A and D</u>

19. Find the wrong combination

- a) Herpes virus – enlargement of sciatic nerve
- b) Paramyxovirus – enlargement of spleen
- c) *Haemophilus gallinarum* – nasal and eye discharge with foul smell
- d) *Aspergillus flavus* – reduced immunity

20. Following are the popular hybrid broilers raised in India

- a) Babcock, Hyline
- b) Hisex, Hubbard
- c) Vencobb, Babcock
- d) Vencobb, Ross

21. **Assertion (A):** Milk yield in cattle is a quantitative character
Reason (R): Genes for milk yield are sex linked and polygenic with cumulative expression
- a) Both A and R are true and R is correct explanation of A
 - b) Both A and R are true, but R is not a correct explanation of A
 - c) A is true, but R is false
 - d) Both A and R are false
22. **Assertion (A):** The crossing of unrelated individuals results in the progeny with increased vigour
Reason (R): The offspring produced due to crossing of different breeds has large number of loci with dominant genotypes than either of the parents
- a) Both A and R are true and R is correct explanation of A
 - b) Both A and R are true, but R is not a correct explanation of A
 - c) A is true, but R is false
 - d) Both A and R are false
23. **Assertion (A) :** Macrobrachium rosenbergii is the most suitable scampy for the culture
Reason (R): It is a eurythermal and euryhaline animal
- a) Both A and R are true and R is correct explanation of A
 - b) Both A and R are true, but R is not a correct explanation of A
 - c) A is true, but R is false
 - d) Both A and R are false
24. **Assertion (A):** Fish meat is important for brain
Reason (R): Fish meat is rich in non-essential amino acids like methionine and lysine
- a) Both A and R are true and R is correct explanation of A
 - b) Both A and R are true, but R is not a correct explanation of A
 - c) A is true, but R is false
 - d) Both A and R are false
25. **Assertion (A):** Coccidiosis and worm infections are less common in deep litter system
Reason(R): Bird droppings are decomposed quickly in the deep litter system
- a) Both A and R are true and R is correct explanation of A
 - b) Both A and R are true, but R is not a correct explanation of A
 - c) A is true, but R is false
 - d) Both A and R are false
26. **Assertion (A):** Scampy is most suitable for culture
Reason (R): Scampy is stenothermal and stenohaline and shows fast growth
- a) Both A and R are true and R is correct explanation of A
 - b) Both A and R are true, but R is not a correct explanation of A
 - c) A is true, but R is false

d) Both A and R are false

KEY

1	2	3	4	5	6	7	8	9	10
b	d	d	c	c	a	c	b	b	c
11	12	13	14	15	16	17	18	19	20
b	a	b	a	b	c	a	d	b	d
21	22	23	24	25	26				
c	a	a	c	a	c				