

# 21 Poultry Science ICAR SEPT 2022

Topic:- GEN KNOW COMMON PHD

1) Colour of the tag used on certified seed bags is[Question ID = 16958][Question Description = 101\_221\_GKD\_SEP22\_Q01]

1. Blue [Option ID = 37829]
2. Purple [Option ID = 37830]
3. White [Option ID = 37831]
4. Golden Yellow [Option ID = 37832]

2) Following are the statements regarding the Usar soil -

- A. It is reclaimed by adding lime.
- B. This soil has pH more than seven.
- C. Paddy crop can be grown in this soil.

Choose the *correct* answer from the options given below:

[Question ID = 16959][Question Description = 102\_221\_GKD\_SEP22\_Q02]

1. A and B only [Option ID = 37833]
2. B and C only [Option ID = 37834]
3. C only [Option ID = 37835]
4. A only [Option ID = 37836]

3) When total utility of a commodity increases, marginal utility will be

[Question ID = 16960][Question Description = 103\_221\_GKD\_SEP22\_Q03]

1. Negative but increasing  
[Option ID = 37837]
2. Positive but decreasing  
[Option ID = 37838]
3. Constant  
[Option ID = 37839]
4. Either positive or negative  
[Option ID = 37840]

4) Where is the headquarter of International Fund for Agriculture Development located?

[Question ID = 16961][Question Description = 104\_221\_GKD\_SEP22\_Q04]

1. Vienna, Austria  
[Option ID = 37841]
2. Rome, Italy  
[Option ID = 37842]
3. New York, USA  
[Option ID = 37843]
4. Berlin, Germany  
[Option ID = 37844]

5) Mid-Oceanic Ridges are one of the important divisions of the ocean floor. In this respect, point out the incorrect statement regarding the 'Mid-Oceanic Ridges'. [Question ID = 16962][Question Description = 105\_221\_GKD\_SEP22\_Q05]

1. It is the largest mountain chain on the surface of the earth [Option ID = 37845]
2. It is a series of interconnected chain within the ocean. [Option ID = 37846]
3. It is characterised by a central rift system [Option ID = 37847]
4. The rift system at the crest is the zone of very low volcanic activity. [Option ID = 37848]

6) Consider the following facts about the union territory of India and point out the one which is incorrect in relation to union territory. [Question ID = 16963][Question Description = 106\_221\_GKD\_SEP22\_Q06]

1. These are the areas under the direct control of central government. [Option ID = 37849]
2. Also known as the 'centrally administered territories'. [Option ID = 37850]

3. These territories constitute a conspicuous departure from the unitary feature of India. [Option ID = 37851]
4. There is no uniformity in their administrative systems. [Option ID = 37852]

**7) Variety of flora and fauna are found in the different types of forest in India. In this regard, species of trees like teak, *sal shisham*, *sandalwood*, etc. are found in which of the following type of forests in India?**[Question ID = 16964][Question Description = 107\_221\_GKD\_SEP22\_Q07]

1. Tropical evergreen forests [Option ID = 37853]
2. Tropical thorn forests [Option ID = 37854]
3. Tropical deciduous forests [Option ID = 37855]
4. Montane forests [Option ID = 37856]

**8) The Marginal Preference Theory of consumption behaviour was proposed by**

**[Question ID = 16965][Question Description = 108\_221\_GKD\_SEP22\_Q08]**

1. Armstrong  
[Option ID = 37857]
2. J.K.Hicks  
[Option ID = 37858]
3. Neumann  
[Option ID = 37859]
4. Edmund Cannon  
[Option ID = 37860]

**9) Point out the incorrect statements regarding the service sector in India.**[Question ID = 16966][Question Description = 109\_221\_GKD\_SEP22\_Q09]

1. It is the highest contributor to GDP [Option ID = 37861]
2. It requires skilled labour [Option ID = 37862]
3. It is the fastest growing sector [Option ID = 37863]
4. It is restricted to very few sectors. [Option ID = 37864]

**10) Consider the statements regarding the agriculture sector in India and point out the incorrect statement.**[Question ID = 16967][Question Description = 110\_221\_GKD\_SEP22\_Q10]

1. Agriculture sector is the largest employer of workforce [Option ID = 37865]
2. It has contributed to the Gross Value Added (GVA) [Option ID = 37866]
3. Growth in allied sectors is the major drivers of overall growth in the sector. [Option ID = 37867]
4. Minimum Support Price (MSP) policy is used as to promote crop uniformity. [Option ID = 37868]

**11) In case of related goods, the cross elasticity of demand is**[Question ID = 16968][Question Description = 111\_221\_GKD\_SEP22\_Q11]

1. Low [Option ID = 37869]
2. High [Option ID = 37870]
3. Zero [Option ID = 37871]
4. Unity [Option ID = 37872]

**12) With reference to organic farming in India, consider the following statements :**

- A. The National Programme for Organic Production' (NPOP) is operated under the guidelines and directions of the Union Ministry of Rural Development.
- B. The Agricultural and Processed Food Products Export Development Authority' (APEDA) functions as the Secretariat for the implementation of NPOP.
- C. Sikkim has become India's first fully organic state.

Choose the *correct* answer from the options given below:

**[Question ID = 16969][Question Description = 112\_221\_GKD\_SEP22\_Q12]**

1. A and B only  
[Option ID = 37873]
2. B and C only  
[Option ID = 37874]
3. C only  
[Option ID = 37875]
4. A, B and C

[Option ID = 37876]

13) With reference to the circumstances in Indian agriculture, the concept of "Conservation Agriculture" assumes significance. Which of the following falls under the Conservation Agriculture ?

- A. Avoiding the monoculture practices.
- B. Adopting minimum tillage.
- C. Avoiding the cultivation of plantation crops.
- D. Using crop residues to cover soil surface.
- E. Adopting spatial and temporal crop sequencing/ crop rotations.

Choose the *correct* answer from the options given below:

[Question ID = 16970][Question Description = 113\_221\_GKD\_SEP22\_Q13]

- 1. A, C and D only [Option ID = 37877]
- 2. B, C, D and E only [Option ID = 37878]
- 3. B, D and E only [Option ID = 37879]
- 4. A, B, C and E only [Option ID = 37880]

14) Consumers are likely to get a variety of goods in which kind of market competition[Question ID = 16971][Question Description = 114\_221\_GKD\_SEP22\_Q14]

- 1. Monopoly [Option ID = 37881]
- 2. Duopoly [Option ID = 37882]
- 3. Oligopoly [Option ID = 37883]
- 4. Monopolistic [Option ID = 37884]

15) What is the correct chronological order of the following laws enacted for the conservation and protection of environment ?

- A. Environment (Protection) Act.
- B. Water (Prevention & Control of Pollution) Act.
- C. Air (Prevention & Control of pollution) Act.
- D. National Green Tribunal Act.

Choose the *correct* answer from the options given below:

[Question ID = 16972][Question Description = 115\_221\_GKD\_SEP22\_Q15]

- 1. B, C, A, D [Option ID = 37885]
- 2. A, B, C, D [Option ID = 37886]
- 3. C, B, A, D [Option ID = 37887]
- 4. D, C, B, A [Option ID = 37888]

16) The scientific study of soil is[Question ID = 16973][Question Description = 116\_221\_GKD\_SEP22\_Q16]

- 1. Earth Study [Option ID = 37889]
- 2. Soil Science [Option ID = 37890]
- 3. Pedology [Option ID = 37891]
- 4. Soil Chemistry [Option ID = 37892]

17) *Triticum aestivum*, the common bread wheat is -

[Question ID = 16974][Question Description = 117\_221\_GKD\_SEP22\_Q17]

- 1. Tetraploid

[Option ID = 37893]

- 2. Hexaploid

[Option ID = 37894]

- 3. Haploid

[Option ID = 37895]

- 4. Diploid

[Option ID = 37896]

18) Sectoral inflation refers to[Question ID = 16975][Question Description = 118\_221\_GKD\_SEP22\_Q18]

- 1. Running inflation [Option ID = 37897]

2. Comprehensive inflation [Option ID = 37898]
3. Sporadic inflation [Option ID = 37899]
4. Creeping inflation [Option ID = 37900]

**19) Keynes Liquidity trap refers to[Question ID = 16976][Question Description = 119\_221\_GKD\_SEP22\_Q19]**

1. Speculative demand for money [Option ID = 37901]
2. Transactions motive of money is inelastic [Option ID = 37902]
3. Precautionary motive of money is inelastic [Option ID = 37903]
4. Transactions motive of money is constant [Option ID = 37904]

**20) A business is solvent if[Question ID = 16977][Question Description = 120\_221\_GKD\_SEP22\_Q20]**

1. Total receipts exceed total expenditures [Option ID = 37905]
2. Total debt exceeds total equity [Option ID = 37906]
3. Total sales exceed total cash expense [Option ID = 37907]
4. Total assets exceed total liabilities [Option ID = 37908]

Topic:- Veterinary and Animal Sciences 1\_PHD

**1) Which of the following statements is not true about Qualitative traits?[Question ID = 3451][Question Description = 101\_60\_BVE\_SEP22\_Q01]**

1. Governed by many genes [Option ID = 13801]
2. Less affected by the environment [Option ID = 13802]
3. Traits differ in kind [Option ID = 13803]
4. Shows discontinuous variations [Option ID = 13804]

**2) Genetic Cline means[Question ID = 3452][Question Description = 102\_60\_BVE\_SEP22\_Q02]**

1. Gene frequency is not variable [Option ID = 13805]
2. Single measurement of a character [Option ID = 13806]
3. Discontinuity of a trait in a population [Option ID = 13807]
4. Measurable gradient of phenotype or genotype [Option ID = 13808]

**3) Pien niu is the species hybrid obtained from**

**[Question ID = 3453][Question Description = 103\_60\_BVE\_SEP22\_Q03]**

1. Mithun X Cow  
[Option ID = 13809]
2. Zebra X horse  
[Option ID = 13810]
3. Mithun X Buffalo  
[Option ID = 13811]
4. Cattle X Yak  
[Option ID = 13812]

**4) Which of the following is an example of multiple allelism?[Question ID = 3454][Question Description = 104\_60\_BVE\_SEP22\_Q04]**

1. Eye colour in Drosophila [Option ID = 13813]
2. Pigmented Iris [Option ID = 13814]
3. Ear Lobes [Option ID = 13815]
4. PTC tasting [Option ID = 13816]

**5) The mating system in which sire of a pure breed are mated to the females of non - descript type is known as:**

**[Question ID = 3455][Question Description = 105\_60\_BVE\_SEP22\_Q05]**

1. Top crossing [Option ID = 13817]
2. Out crossing [Option ID = 13818]
3. Grading up [Option ID = 13819]
4. Species hybridization [Option ID = 13820]

**6) National Dairy Development Board (NDDDB) has developed a software for monitoring dairy animal productivity & health[Question ID = 3456][Question Description = 106\_60\_BVE\_SEP22\_Q06]**

1. HERD MAN [Option ID = 13821]
2. INAPH [Option ID = 13822]
3. ANIMAL [Option ID = 13823]
4. WOMBAT [Option ID = 13824]

7) Genetic marker-based selection is quite effective as it shows higher genetic gain for the traits[Question ID = 3457]  
[Question Description = 107\_60\_BVE\_SEP22\_Q07]

1. Having high heritability [Option ID = 13825]
2. Having moderate heritability [Option ID = 13826]
3. Having low heritability [Option ID = 13827]
4. Having negligible heritability [Option ID = 13828]

8) Who discovered the Chromosome for the first time?[Question ID = 3458][Question Description = 108\_60\_BVE\_SEP22\_Q08]

1. Waldeyer [Option ID = 13829]
2. Walther Fleming [Option ID = 13830]
3. Wheler [Option ID = 13831]
4. Watson [Option ID = 13832]

9) The scientific name of Hamster is[Question ID = 3459][Question Description = 109\_60\_BVE\_SEP22\_Q09]

1. Langomorphs [Option ID = 13833]
2. Guniea Pig [Option ID = 13834]
3. Cavia porcellus [Option ID = 13835]
4. Cricetinae [Option ID = 13836]

10) Which one of them according to CPCSEA is used for a maintaining a breeding record in laboratory animal[Question ID = 3460][Question Description = 110\_60\_BVE\_SEP22\_Q10]

1. Form A [Option ID = 13837]
2. Form B [Option ID = 13838]
3. Form C [Option ID = 13839]
4. Form D [Option ID = 13840]

11) Match List I with List II

List I	List II
(Book/Theory proposed/Characteristic, etc.)	(Author/Thinker/Name of Theory, etc.)
A. Halter and canister	I. Gross energy estimation
B. Bypass fat	II. Biohydrogenation of linoleic acid
C. Bomb calorimeter	III. Protein encapsulation
D. CLA	IV. SF6 technique

Choose the correct answer from the options given below:

[Question ID = 3461][Question Description = 111\_60\_BVE\_SEP22\_Q11]

1. A - II, B - I, C - III, D -IV

[Option ID = 13841]

2. A -IV, B -II, C - III, D -I

[Option ID = 13842]

3. A -III, B -II, C -IV, D -I

[Option ID = 13843]

4. A -IV, B -III, C -I, D -II

[Option ID = 13844]

12) The ratio of ME to DE of roughage in ruminant is[Question ID = 3462][Question Description = 112\_60\_BVE\_SEP22\_Q12]

1. 0.79 [Option ID = 13845]
2. 0.96 [Option ID = 13846]
3. 0.82 [Option ID = 13847]
4. 0.72 [Option ID = 13848]

13) Quality control of livestock feed in India is regulated by[Question ID = 3463][Question Description = 113\_60\_BVE\_SEP22\_Q13]

1. ICAR [Option ID = 13849]

2. BIS [Option ID = 13850]
3. CLFMA [Option ID = 13851]
4. NDDB [Option ID = 13852]

**14) Allotriophagia is caused in cattle due to[Question ID = 3464][Question Description = 114\_60\_BVE\_SEP22\_Q14]**

1. Calcium deficiency [Option ID = 13853]
2. Phosphorus deficiency [Option ID = 13854]
3. Sodium deficiency [Option ID = 13855]
4. Potassium deficiency [Option ID = 13856]

**15) Reference standard used in bomb calorimeter is[Question ID = 3465][Question Description = 115\_60\_BVE\_SEP22\_Q15]**

1. Benzoic acid [Option ID = 13857]
2. Butyric acid [Option ID = 13858]
3. Oxalic acid [Option ID = 13859]
4. Citric acid [Option ID = 13860]

**16) The atmospheric pressure of oxygen required for sample analysis in Bomb calorimeter is[Question ID = 3466][Question Description = 116\_60\_BVE\_SEP22\_Q16]**

1. 15 [Option ID = 13861]
2. 25 [Option ID = 13862]
3. 35 [Option ID = 13863]
4. 45 [Option ID = 13864]

**17) The decreasing order of susecpibility to animal species from Gossypol toxicity is**

**A.Goat**

**B.Horse**

**C. Pig**

**D.Poultry**

Choose the *correct* answer from the options given below

**[Question ID = 3467][Question Description = 117\_60\_BVE\_SEP22\_Q17]**

1. A, B, C, D [Option ID = 13865]
2. D,C,B,A [Option ID = 13866]
3. B,C,D, A [Option ID = 13867]
4. A,D,B,C [Option ID = 13868]

**18) Rumen microbes that breaks down the fibrous structure of roughages by penetrating the feed are[Question ID = 3468] [Question Description = 118\_60\_BVE\_SEP22\_Q18]**

1. Bacteria [Option ID = 13869]
2. Archea [Option ID = 13870]
3. Fungi [Option ID = 13871]
4. Protozoa [Option ID = 13872]

**19) Surface area law of body heat production was given by[Question ID = 3469][Question Description = 119\_60\_BVE\_SEP22\_Q19]**

1. O. Kellner [Option ID = 13873]
2. T. B. Osborne [Option ID = 13874]
3. H. H. Mitchell [Option ID = 13875]
4. Max Rubner [Option ID = 13876]

**20) The Maillard reaction involves a reaction between[Question ID = 3470][Question Description = 120\_60\_BVE\_SEP22\_Q20]**

1.  $\epsilon$ -amino groups of lysine and carbonyl compounds of reducing sugars [Option ID = 13877]
2.  $\epsilon$ -amino groups of lysine and carbonyl compounds of non-reducing sugars [Option ID = 13878]
3.  $\epsilon$ -amino groups of arginine and carbonyl compounds of non-reducing sugars [Option ID = 13879]
4.  $\epsilon$ -amino groups of methionine and carbonyl compounds of non-reducing sugars [Option ID = 13880]

**21) According to FAO how many types of livestock management systems are there[Question ID = 3471][Question Description = 121\_60\_BVE\_SEP22\_Q21]**

1. 3 [Option ID = 13881]
2. 4 [Option ID = 13882]
3. 2 [Option ID = 13883]
4. 5 [Option ID = 13884]

**22) The breed of cattle used for the game of *Jalikattu*[Question ID = 3472][Question Description = 122\_60\_BVE\_SEP22\_Q22]**

1. Kangayam and Pullikulam [Option ID = 13885]
2. Kangayam and Ponwar [Option ID = 13886]
3. Hallikar and Kangayam [Option ID = 13887]
4. Kangayam and Kankrej [Option ID = 13888]

**23) Based on milk production of a cattle an extra 1 kg of concentrate is given for each[Question ID = 3473][Question Description = 123\_60\_BVE\_SEP22\_Q23]**

1. 5 litres of milk produced [Option ID = 13889]
2. 10 litres of milk produced [Option ID = 13890]
3. 2.5 litres of milk produced [Option ID = 13891]
4. 1.5 litres of milk produced [Option ID = 13892]

**24) The breed reared for the production of Pashmina is[Question ID = 3474][Question Description = 124\_60\_BVE\_SEP22\_Q24]**

1. Chokla [Option ID = 13893]
2. Patanwadi [Option ID = 13894]
3. Chegu [Option ID = 13895]
4. Muzzaffarnagri [Option ID = 13896]

**25) The organization / committee known for regulating animal experimentation[Question ID = 3475][Question Description = 125\_60\_BVE\_SEP22\_Q25]**

1. PFA [Option ID = 13897]
2. CPSCEA [Option ID = 13898]
3. CPCSEA [Option ID = 13899]
4. CPSEA [Option ID = 13900]

**26) National Dairy Research Institute was established in Bangalore in the year[Question ID = 3476][Question Description = 126\_60\_BVE\_SEP22\_Q26]**

1. 1921 [Option ID = 13901]
2. 1922 [Option ID = 13902]
3. 1923 [Option ID = 13903]
4. 1924 [Option ID = 13904]

**27) Intermittent milking is a characteristic feature of which of the following breed of buffaloes[Question ID = 3477][Question Description = 127\_60\_BVE\_SEP22\_Q27]**

1. Jaffarabadi [Option ID = 13905]
2. Banni [Option ID = 13906]
3. Pandharpuri [Option ID = 13907]
4. Gojri [Option ID = 13908]

**28) Which of the following Camel in India is endangered?[Question ID = 3478][Question Description = 128\_60\_BVE\_SEP22\_Q28]**

1. Bikaneri [Option ID = 13909]
2. Jaisalmeri [Option ID = 13910]
3. Double humped [Option ID = 13911]
4. Kutchchi [Option ID = 13912]

**29) Colostrum feeding should be done to calves within ..... (time) of their birth[Question ID = 3479][Question Description = 129\_60\_BVE\_SEP22\_Q29]**

1. 1 hour [Option ID = 13913]
2. 10 hours [Option ID = 13914]
3. 3 hours [Option ID = 13915]
4. 30 minutes [Option ID = 13916]

**30) Karan Fries strain of cattle is evolved by crossing[Question ID = 3480][Question Description = 130\_60\_BVE\_SEP22\_Q30]**

1. Sahiwal with Brown Swiss [Option ID = 13917]
2. Red Sindhi with Jersey [Option ID = 13918]
3. Tharparkar with Holstein [Option ID = 13919]
4. Nondescript with Brown Swiss [Option ID = 13920]

**31) The method of choice for determining fecal coliform densities[Question ID = 3481][Question Description = 131\_60\_BVE\_SEP22\_Q31]**

1. SPC [Option ID = 13921]
2. MPN [Option ID = 13922]
3. Agar droplets [Option ID = 13923]
4. HGMF [Option ID = 13924]

**32) In sous vide method of cooking of meat**

- A. Cooking is done at temperature <100°C under="">
- B. Cooking is continued for extended period of time followed by cooling
- C. has positive effect on tenderness compared with conventional cooking
- D. disadvantageous because of non-uniformity in doneness

Choose the *correct* answer from the options given below:

[Question ID = 3482][Question Description = 132\_60\_BVE\_SEP22\_Q32]

1. A, B and D only [Option ID = 13925]
2. A, B and C only [Option ID = 13926]
3. B, C and D only [Option ID = 13927]
4. A, C and D only [Option ID = 13928]

**33) The predominant unsaturated fatty acids in muscle fat is[Question ID = 3483][Question Description = 133\_60\_BVE\_SEP22\_Q33]**

1. Palmitic acid [Option ID = 13929]
2. Stearic acid [Option ID = 13930]
3. Oleic acid [Option ID = 13931]
4. linoleic acid [Option ID = 13932]

**34) Muscle food is an excellent source of[Question ID = 3484][Question Description = 134\_60\_BVE\_SEP22\_Q34]**

1. Vit A [Option ID = 13933]
2. Vit B [Option ID = 13934]
3. Vit D [Option ID = 13935]
4. Vit E [Option ID = 13936]

**35) A weight lifter requires phasic action of muscle and depends on[Question ID = 3485][Question Description = 135\_60\_BVE\_SEP22\_Q35]**

1. Red muscle fibers [Option ID = 13937]
2. White muscle fibers [Option ID = 13938]
3. Intermediate type muscle fibers [Option ID = 13939]
4. better capillarized muscle fibers [Option ID = 13940]

**36) The most abundant myofibrillar protein in adult mammalian muscle is[Question ID = 3486][Question Description = 136\_60\_BVE\_SEP22\_Q36]**

1. Collagen [Option ID = 13941]
2. Myosin [Option ID = 13942]
3. Actin [Option ID = 13943]
4. M-protein [Option ID = 13944]

**37) The poultry birds in which PSE is more prevalent is[Question ID = 3487][Question Description = 137\_60\_BVE\_SEP22\_Q37]**

1. Duck [Option ID = 13945]
2. Pigeon [Option ID = 13946]
3. Turkey [Option ID = 13947]
4. Quail [Option ID = 13948]

**38) As per AGMARK standards for table egg the medium grade eggs weigh approx[Question ID = 3488][Question Description = 138\_60\_BVE\_SEP22\_Q38]**

1. 60-72g [Option ID = 13949]
2. 53-59g [Option ID = 13950]
3. 45-52g [Option ID = 13951]
4. 38-44g [Option ID = 13952]

**39) BIS (Bureau of Indian Standards) erstwhile ISI works under the aegis of[Question ID = 3489][Question Description = 139\_60\_BVE\_SEP22\_Q39]**

1. Ministry of Health and Family Welfare [Option ID = 13953]
2. Ministry of Agriculture and Farmer Welfare [Option ID = 13954]

3. Ministry of Consumer Affairs, Food and Public Distribution [Option ID = 13955]
4. Ministry of Food Processing and Consumer Affairs [Option ID = 13956]

**40) Cod liver oil has high levels of**[Question ID = 3490][Question Description = 140\_60\_BVE\_SEP22\_Q40]

1. Vitamin K [Option ID = 13957]
2. Vitamin B [Option ID = 13958]
3. Vitamin C [Option ID = 13959]
4. Vitamin D [Option ID = 13960]

**41) Who coined the term "Genetics"**

[Question ID = 3491][Question Description = 141\_60\_BVE\_SEP22\_Q41]

1. Johanssen [Option ID = 13961]
2. Sutton [Option ID = 13962]
3. Mendel [Option ID = 13963]
4. Bateson [Option ID = 13964]

**42) Crossing of inbred lines take advantage of**[Question ID = 3492][Question Description = 142\_60\_BVE\_SEP22\_Q42]

1. Inbreeding depression [Option ID = 13965]
2. Hybrid vigour [Option ID = 13966]
3. Loss of vigour [Option ID = 13967]
4. Increase in homozygosity [Option ID = 13968]

**43) Percent of crossing over is more when**

[Question ID = 3493][Question Description = 143\_60\_BVE\_SEP22\_Q43]

1. genes are located in a different cell [Option ID = 13969]
2. genes are located in same chromosome [Option ID = 13970]
3. linked genes are located close to each other [Option ID = 13971]
4. linked genes are located far apart from each other [Option ID = 13972]

**44) Aneuploidy is mostly caused by**

[Question ID = 3494][Question Description = 144\_60\_BVE\_SEP22\_Q44]

1. Nondisjunction [Option ID = 13973]
2. Disjunction [Option ID = 13974]
3. Crossing over [Option ID = 13975]
4. Mating [Option ID = 13976]

**45) Which of the following system of mating changes the genetic composition without creating new genes?**

[Question ID = 3495][Question Description = 145\_60\_BVE\_SEP22\_Q45]

1. Top crossing [Option ID = 13977]
2. Back crossing [Option ID = 13978]
3. Grading up [Option ID = 13979]
4. Rotational crossing [Option ID = 13980]

**46) Selection of an animal based on its own performance is**

[Question ID = 3496][Question Description = 146\_60\_BVE\_SEP22\_Q46]

1. Family selection [Option ID = 13981]
2. Mass selection [Option ID = 13982]
3. Sib selection [Option ID = 13983]
4. Pedigree selection [Option ID = 13984]

**47) Choose the correct equation**

[Question ID = 3497][Question Description = 147\_60\_BVE\_SEP22\_Q47]

1.  $i = \sigma P / S$  [Option ID = 13985]
2.  $S = \sigma P / i$  [Option ID = 13986]
3.  $s = i\sigma P$  [Option ID = 13987]
4.  $i = S\sigma P$  [Option ID = 13988]

**48) Which of the following is incorrect**[Question ID = 3498][Question Description = 148\_60\_BVE\_SEP22\_Q48]

1. Mule: Jack X Mare [Option ID = 13989]
2. Pien niu: Cattle X Yak [Option ID = 13990]
3. Hinny: Jack X Mare [Option ID = 13991]
4. Zeriid: Zebra X Horse [Option ID = 13992]

**49) Frieswal breed of cattle was developed by crossing of**[Question ID = 3499][Question Description = 149\_60\_BVE\_SEP22\_Q49]

1. Holstein Friesian and Tharparker [Option ID = 13993]
2. Holstein Friesian and Sahiwal [Option ID = 13994]
3. Holstein Friesian and Red Sindhi [Option ID = 13995]
4. Holstein Friesian and nondescript cattle [Option ID = 13996]

**50) Interaction between alleles resulting in superiority of heterozygous individuals over others is called as**[Question ID = 3500][Question Description = 150\_60\_BVE\_SEP22\_Q50]

1. Dominance [Option ID = 13997]
2. Partial dominance [Option ID = 13998]
3. Overdominance [Option ID = 13999]
4. Complete dominance [Option ID = 14000]

Topic:- 21 Poultry Science\_PHD

**1) Slow feathering gene (k) used in sexing of chicken is a**[Question ID = 3651][Question Description = 101\_147\_PLS\_SEP22\_Q01]

1. Sex linked dominant gene [Option ID = 14601]
2. Sex linked recessive gene [Option ID = 14602]
3. Autosomal gene [Option ID = 14603]
4. Sex influenced gene [Option ID = 14604]

**2) Indian Runner duck breed is reared for \_\_\_\_\_ purpose.**

[Question ID = 3652][Question Description = 102\_147\_PLS\_SEP22\_Q02]

1. Meat [Option ID = 14605]
2. Egg [Option ID = 14606]
3. Dual [Option ID = 14607]
4. Game purpose [Option ID = 14608]

**3) CARI Nirbheek chicken variety contains blood of which native chicken breed?**[Question ID = 3653][Question Description = 103\_147\_PLS\_SEP22\_Q03]

1. Kadaknath [Option ID = 14609]
2. Ghagus [Option ID = 14610]
3. Tellicherry [Option ID = 14611]
4. Aseel [Option ID = 14612]

**4) Dwarf in chicken is an effect of**

[Question ID = 3654][Question Description = 104\_147\_PLS\_SEP22\_Q04]

1. Polygene [Option ID = 14613]
2. Single gene [Option ID = 14614]
3. Lethal gene [Option ID = 14615]
4. Pseudo gene [Option ID = 14616]

**5) Walnut comb pattern in chicken is an example of**

[Question ID = 3655][Question Description = 105\_147\_PLS\_SEP22\_Q05]

1. Non-epistatic gene interaction [Option ID = 14617]
2. Dominant epistatic interaction [Option ID = 14618]
3. Recessive epistatic interaction [Option ID = 14619]
4. Duplicate dominant gene [Option ID = 14620]

**6) Naked neck in chicken is an example of**

[Question ID = 3656][Question Description = 106\_147\_PLS\_SEP22\_Q06]

1. Complete dominance [Option ID = 14621]
2. Incomplete dominance [Option ID = 14622]
3. Quantitative trait [Option ID = 14623]
4. Threshold trait [Option ID = 14624]

**7) In pen mating, how many males are kept in a pen for mating 10 or 12 hens for light breeds and 8 or 10 hens for heavy breeds of chicken**[Question ID = 3657][Question Description = 107\_147\_PLS\_SEP22\_Q07]

1. One [Option ID = 14625]
2. Two [Option ID = 14626]

3. Three [Option ID = 14627]
4. Four [Option ID = 14628]

**8) In flock mating, how many males are kept in a pen for mating hens?**

**[Question ID = 3658][Question Description = 108\_147\_PLS\_SEP22\_Q08]**

1. One [Option ID = 14629]
2. Two or more [Option ID = 14630]
3. Equal number of males and females [Option ID = 14631]
4. Males are not kept in pen [Option ID = 14632]

**9) Heritability of egg weight mostly falls in the range of[Question ID = 3659][Question Description = 109\_147\_PLS\_SEP22\_Q09]**

1. 0.01 to 0.1 [Option ID = 14633]
2. 0.1 to 0.2 [Option ID = 14634]
3. 0.3 to 0.5 [Option ID = 14635]
4. 1 [Option ID = 14636]

**10) Heritability of egg shape index is[Question ID = 3660][Question Description = 110\_147\_PLS\_SEP22\_Q10]**

1. High [Option ID = 14637]
2. Low [Option ID = 14638]
3. Medium [Option ID = 14639]
4. Non-heritable [Option ID = 14640]

**11) In chicken, which ovary is functional?[Question ID = 3661][Question Description = 111\_147\_PLS\_SEP22\_Q11]**

1. Right ovary [Option ID = 14641]
2. Left ovary [Option ID = 14642]
3. Both left and right ovary [Option ID = 14643]
4. Ovary is not present in hens [Option ID = 14644]

**12) Egg shell is formed in which part of female reproductive tract?[Question ID = 3662][Question Description = 112\_147\_PLS\_SEP22\_Q12]**

1. Infundibulum [Option ID = 14645]
2. Magnum [Option ID = 14646]
3. Isthmus [Option ID = 14647]
4. Uterus [Option ID = 14648]

**13) Light stimulates the anterior lobe of the pituitary gland for release of \_\_\_\_\_ hormones associated with egg laying in chicken.**

**[Question ID = 3663][Question Description = 113\_147\_PLS\_SEP22\_Q13]**

1. FSH and LH [Option ID = 14649]
2. Prolactin [Option ID = 14650]
3. Myostatin [Option ID = 14651]
4. Follistatin [Option ID = 14652]

**14) Formation and laying of egg in the reproductive tract in a laying hen takes around[Question ID = 3664][Question Description = 114\_147\_PLS\_SEP22\_Q14]**

1. 24 to 27 hours [Option ID = 14653]
2. 10-12 hours [Option ID = 14654]
3. 40-50 hours [Option ID = 14655]
4. 1-2 hours [Option ID = 14656]

**15) Clutch size in White Leghorn chicken is around[Question ID = 3665][Question Description = 115\_147\_PLS\_SEP22\_Q15]**

1. 1-2 eggs [Option ID = 14657]
2. 3-4 eggs [Option ID = 14658]
3. 5-8 eggs [Option ID = 14659]
4. 10-12 eggs or more [Option ID = 14660]

**16) Lasota/F vaccine in poultry is associated with \_\_\_\_\_ disease.**

**[Question ID = 3666][Question Description = 116\_147\_PLS\_SEP22\_Q16]**

1. IBD [Option ID = 14661]
2. Fowl pox [Option ID = 14662]
3. Marek's disease [Option ID = 14663]
4. RD [Option ID = 14664]

17) Deworming is practised in poultry to control \_\_\_\_\_ disease.

[Question ID = 3667][Question Description = 117\_147\_PLS\_SEP22\_Q17]

1. Bacterial [Option ID = 14665]
2. Viral [Option ID = 14666]
3. Parasitic [Option ID = 14667]
4. Mycotic [Option ID = 14668]

18) Fowl cholera in poultry is caused by[Question ID = 3668][Question Description = 118\_147\_PLS\_SEP22\_Q18]

1. *P. multocida* [Option ID = 14669]
2. *Salmonella pullorum* [Option ID = 14670]
3. *S. gallinarum* [Option ID = 14671]
4. *Haemophiluspara gallinarum* [Option ID = 14672]

19) R2B/RDVK vaccine is administered against \_\_\_\_\_ Disease.

[Question ID = 3669][Question Description = 119\_147\_PLS\_SEP22\_Q19]

1. RD [Option ID = 14673]
2. IBD [Option ID = 14674]
3. Fowl cholera [Option ID = 14675]
4. Fowl pox [Option ID = 14676]

20) As a biosecurity measure, foot dips located at the entrance of a poultry farm should contain mixture of lime powder and bleaching powder at the concentration of \_\_\_\_\_ for the best result.

[Question ID = 3670][Question Description = 120\_147\_PLS\_SEP22\_Q20]

1. 20% lime powder + 80% Bleaching powder [Option ID = 14677]
2. 50% lime powder + 50% Bleaching powder [Option ID = 14678]
3. 80% lime powder + 20% Bleaching powder [Option ID = 14679]
4. 10% lime powder + 90% Bleaching powder [Option ID = 14680]

21) As a best biosecurity measure, hatchery should be located atleast \_\_\_\_\_ ft away from the poultry sheds.

[Question ID = 3671][Question Description = 121\_147\_PLS\_SEP22\_Q21]

1. 10 [Option ID = 14681]
2. 20 [Option ID = 14682]
3. 30 [Option ID = 14683]
4. 500 [Option ID = 14684]

22) CARI Ujjawal is a variety of[Question ID = 3672][Question Description = 122\_147\_PLS\_SEP22\_Q22]

1. Duck [Option ID = 14685]
2. Quail [Option ID = 14686]
3. Turkey [Option ID = 14687]
4. Chicken [Option ID = 14688]

23) White Leghorn breed is famous for[Question ID = 3673][Question Description = 123\_147\_PLS\_SEP22\_Q23]

1. Better feather distribution [Option ID = 14689]
2. Meat production [Option ID = 14690]
3. Egg production [Option ID = 14691]
4. Disease resistance [Option ID = 14692]

24) Selection method used for improving feed efficiency traits in poultry is[Question ID = 3674][Question Description = 124\_147\_PLS\_SEP22\_Q24]

1. Mass selection [Option ID = 14693]
2. Individual selection [Option ID = 14694]
3. Progeny testing [Option ID = 14695]
4. Family Selection [Option ID = 14696]

25) Body weight in chicken has high positive correlation with[Question ID = 3675][Question Description = 125\_147\_PLS\_SEP22\_Q25]

1. Egg weight [Option ID = 14697]
2. Disease occurrences [Option ID = 14698]
3. Clutch size [Option ID = 14699]
4. Egg production [Option ID = 14700]

26) Which one of the following is the product of digestibility and biological value of a protein?

[Question ID = 3676][Question Description = 126\_147\_PLS\_SEP22\_Q26]

1. BV [Option ID = 14701]
2. NPU [Option ID = 14702]
3. PER [Option ID = 14703]
4. PUV [Option ID = 14704]

27) Match List I with List II

List I	List II
Minerals	Deficiency symptom in poultry
A. Potassium	I. Coma
B. Magnesium	II. Perosis
C. Manganese	III. Tetany
D. Zinc	IV. Keratosis

Choose the correct match from the options given below:

[Question ID = 3677][Question Description = 127\_147\_PLS\_SEP22\_Q27]

1. A - I , B - III, C - II, D - IV [Option ID = 14705]
2. A - I, B - III, C - IV, D - II [Option ID = 14706]
3. A - III, B - I, C - II, D - IV [Option ID = 14707]
4. A - III, B - I, C - IV, D - II [Option ID = 14708]

28) Read the following statements regarding mixing equipments of poultry ration

- A. Batch mixer is available in vertical and horizontal types.
- B. Horizontal mixer is less expensive than vertical mixer.
- C. Continuous mixers are used primarily in large feed manufacturing plants.
- D. Horizontal mixer contain large 'W' shaped bin containing central mixer blade mounted on rotation shaft.

Choose the *correct* statements from the options given below:

[Question ID = 3678][Question Description = 128\_147\_PLS\_SEP22\_Q28]

1. A and B only [Option ID = 14709]
2. A and C only [Option ID = 14710]
3. B and C only [Option ID = 14711]
4. C and D only [Option ID = 14712]

29) In which feeding system, poultry is fed with whole grain?[Question ID = 3679][Question Description = 129\_147\_PLS\_SEP22\_Q29]

1. Cafeteria feeding system [Option ID = 14713]
2. Restricted feeding system [Option ID = 14714]
3. Range feeding system [Option ID = 14715]
4. Ranch feeding system [Option ID = 14716]

30) 'Grain and mash' method of poultry feeding was commonly practiced in past for[Question ID = 3680][Question Description = 130\_147\_PLS\_SEP22\_Q30]

1. Breeders [Option ID = 14717]
2. Broilers [Option ID = 14718]
3. Layers [Option ID = 14719]
4. Chicks [Option ID = 14720]

31) Mango-seed kernel has been used to replace one of the following ingredients in poultry ration[Question ID = 3681][Question Description = 131\_147\_PLS\_SEP22\_Q31]

1. Mineral mixture [Option ID = 14721]
2. Vitamins [Option ID = 14722]
3. Maize [Option ID = 14723]
4. GNC [Option ID = 14724]

32) Which one of the following vitamin is absent in hen's egg?

[Question ID = 3682][Question Description = 132\_147\_PLS\_SEP22\_Q32]

1. Vit. A [Option ID = 14725]
2. Vit. C [Option ID = 14726]
3. Vit. D [Option ID = 14727]
4. Vit. E [Option ID = 14728]

33) Match List I with List II

List I	List II
U.S. standards for egg quality	Quality factor
A. AA	I. Yolk may show clearly visible germ development but no blood
B. A	II. Shell clean to very slightly stained and unbroken
C. B	III. Albumin's HU 72 or more
D. C	IV. Air cell 3/16" or less in depth

Choose the correct answer from the options given below:

[Question ID = 3683][Question Description = 133\_147\_PLS\_SEP22\_Q33]

1. A - III, B - IV, C - II, D - I [Option ID = 14729]
2. A - III, B - IV, C - I, D - II [Option ID = 14730]
3. A - I, B - II, C - III, D - IV [Option ID = 14731]
4. A - I, B - II, C - IV, D - III [Option ID = 14732]

34) Which bacterial infection is responsible for 'Black rot' of table egg?[Question ID = 3684][Question Description = 134\_147\_PLS\_SEP22\_Q34]

1. *Staphylococcus sps* [Option ID = 14733]
2. *Proteus sps* [Option ID = 14734]
3. *Clostridium sps* [Option ID = 14735]
4. *Pseudomonas sps* [Option ID = 14736]

35) Based on chilled ready-to-cook weight basis, highest percentage yield of legs and thigh is found in[Question ID = 3685][Question Description = 135\_147\_PLS\_SEP22\_Q35]

1. Ducks [Option ID = 14737]
2. Geese [Option ID = 14738]
3. Turkey [Option ID = 14739]
4. Broilers [Option ID = 14740]

36) As per USDA standards of quality for live poultry, bird with complete lack of feathers pertains to one of the following quality[Question ID = 3686][Question Description = 136\_147\_PLS\_SEP22\_Q36]

1. A [Option ID = 14741]
2. B [Option ID = 14742]
3. C [Option ID = 14743]
4. AB [Option ID = 14744]

37) Read the following statements regarding poultry meat

- A. Poultry meat is a good source of energy in human nutrition.
- B. Poultry meat has higher protein percentage than other types of meat.
- C. Unlike other meat, most fat in poultry meat is found under the skin rather than throughout the tissue.
- D. Poultry meat is a good source of niacin and moderately good source of riboflavin, thiamin and ascorbic acid.

Choose the *correct* statement(s) from the options given below:

[Question ID = 3687][Question Description = 137\_147\_PLS\_SEP22\_Q37]

1. A, B and C only [Option ID = 14745]
2. B, C and D only [Option ID = 14746]
3. A, C and D only [Option ID = 14747]
4. A, B and D only [Option ID = 14748]

38) When hatching eggs are to be stored for more than 7 days then required optimum storage temperature (degree Celsius) should be[Question ID = 3688][Question Description = 138\_147\_PLS\_SEP22\_Q38]

1. 18-20 [Option ID = 14749]
2. 16-18 [Option ID = 14750]
3. 14-16 [Option ID = 14751]
4. 10-12 [Option ID = 14752]

39) Optimum oxygen concentration required in the incubator for hatching eggs at high altitude beyond 1050 m from the MSL is about

[Question ID = 3689][Question Description = 139\_147\_PLS\_SEP22\_Q39]

1. 21% [Option ID = 14753]
2. 23% [Option ID = 14754]

3. 25% [Option ID = 14755]
4. 27% [Option ID = 14756]

**40) Hatching eggs infected with *Salmonella* may result in**

**[Question ID = 3690][Question Description = 140\_147\_PLS\_SEP22\_Q40]**

1. Positive development but blastoderm without embryo [Option ID = 14757]
2. Late hatch [Option ID = 14758]
3. Soft chicks [Option ID = 14759]
4. Malpositioned embryo [Option ID = 14760]

**41) Maximum permissible level of carbon monoxide for chicks during brooding is[Question ID = 3691][Question Description = 141\_147\_PLS\_SEP22\_Q41]**

1. 0.09% [Option ID = 14761]
2. 0.06% [Option ID = 14762]
3. 0.03% [Option ID = 14763]
4. 0.01% [Option ID = 14764]

**42) Moulting in layers starts from[Question ID = 3692][Question Description = 142\_147\_PLS\_SEP22\_Q42]**

1. Head [Option ID = 14765]
2. Neck [Option ID = 14766]
3. Wings [Option ID = 14767]
4. Tails [Option ID = 14768]

**43) Optimum relative humidity in poultry shed should range between[Question ID = 3693][Question Description = 143\_147\_PLS\_SEP22\_Q43]**

1. 80-100% [Option ID = 14769]
2. 60-80% [Option ID = 14770]
3. 40-60% [Option ID = 14771]
4. 20-40% [Option ID = 14772]

**44) One of the following colours of light in poultry house gives most satisfactory result[Question ID = 3694][Question Description = 144\_147\_PLS\_SEP22\_Q44]**

1. Green [Option ID = 14773]
2. Blue [Option ID = 14774]
3. Violet [Option ID = 14775]
4. White [Option ID = 14776]

**45) Under tropical conditions, the width of poultry shed should range between[Question ID = 3695][Question Description = 145\_147\_PLS\_SEP22\_Q45]**

1. 7.5-9.0 m [Option ID = 14777]
2. 10.0-12.5 m [Option ID = 14778]
3. 13.0-15.0 m [Option ID = 14779]
4. 16.0-18.0 m [Option ID = 14780]

**46) The floor of poultry shed should be higher than surrounding elevation by[Question ID = 3696][Question Description = 146\_147\_PLS\_SEP22\_Q46]**

1. 0.25m [Option ID = 14781]
2. 0.65m [Option ID = 14782]
3. 1.15m [Option ID = 14783]
4. 1.45m [Option ID = 14784]

**47) The recommended depth for grower feeder is[Question ID = 3697][Question Description = 147\_147\_PLS\_SEP22\_Q47]**

1. 7cm [Option ID = 14785]
2. 11cm [Option ID = 14786]
3. 15cm [Option ID = 14787]
4. 19cm [Option ID = 14788]

**48) The major percentage of eggs are marketed by 'Small poultry farmer' through one of the following channels[Question ID = 3698][Question Description = 148\_147\_PLS\_SEP22\_Q48]**

1. Producer - Wholesaler - Retailer - Consumer [Option ID = 14789]
2. Producer - Wholesaler - Consumer [Option ID = 14790]
3. Producer - Retailer - Consumer [Option ID = 14791]
4. Producer - Consumer [Option ID = 14792]

49) The approximate producer's share in the consumer price of egg in 'Producer - Consumer' marketing channel is

[Question ID = 3699][Question Description = 149\_147\_PLS\_SEP22\_Q49]

1. 100% [Option ID = 14793]
2. 95% [Option ID = 14794]
3. 85% [Option ID = 14795]
4. 65% [Option ID = 14796]

50) The lowest cost of broiler production has been observed during[Question ID = 3700][Question Description = 150\_147\_PLS\_SEP22\_Q50]

1. Rainy season [Option ID = 14797]
2. Summer season [Option ID = 14798]
3. Winter season [Option ID = 14799]
4. Spring season [Option ID = 14800]

