

20 Livestock Products Technology 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 (NDDB) 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. NDDDB [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. ϵ -amino groups of lysine and carbonyl compounds of reducing sugars [Option ID = 13877]
2. ϵ -amino groups of lysine and carbonyl compounds of non-reducing sugars [Option ID = 13878]
3. ϵ -amino groups of arginine and carbonyl compounds of non-reducing sugars [Option ID = 13879]
4. ϵ -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 *Jalikkattu*[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. Zeriad: 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]

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1) The predominant unsaturated fatty acid in muscle fat is[Question ID = 3601][Question Description = 101_59_LPT_SEP22_Q01]

1. C16:1 [Option ID = 14401]
2. C18:0 [Option ID = 14402]
3. C18:1 [Option ID = 14403]
4. C18:2 [Option ID = 14404]

2) Hide obtained from animal that died from some cause other than slaughter is[Question ID = 3602][Question Description = 102_59_LPT_SEP22_Q02]

1. Small packer hide [Option ID = 14405]
2. Renderer hide [Option ID = 14406]
3. Colarado hide [Option ID = 14407]
4. Native hide [Option ID = 14408]

3) Smoothening the grain surafce by light mechanical sanding to improve the appearance of the leather is called[Question ID = 3603][Question Description = 103_59_LPT_SEP22_Q03]

1. Finishing [Option ID = 14409]
2. Buffing [Option ID = 14410]
3. Sammy [Option ID = 14411]
4. Conditioning [Option ID = 14412]

4) In a pig slaughter house operation, the maximum quanti of water is consumed for[Question ID = 3604][Question Description = 104_59_LPT_SEP22_Q04]

1. Meat sprays and rinses [Option ID = 14413]
2. floor and equipment cleaning [Option ID = 14414]
3. personal hygiene [Option ID = 14415]
4. cooling water [Option ID = 14416]

5) The test most commonly used for density test of pan samples of condensed milk is[Question ID = 3605][Question Description = 105_59_LPT_SEP22_Q05]

1. Pycnometer test [Option ID = 14417]
2. Hydrometer test [Option ID = 14418]
3. Refractrometer test [Option ID = 14419]
4. Viscometer test [Option ID = 14420]

6) The whey protein nitrogen (WPN) of high heat skim milk powder should be[Question ID = 3606][Question Description = 106_59_LPT_SEP22_Q06]

1. ≥ 6 mg [Option ID = 14421]
2. 1.5-6 mg [Option ID = 14422]
3. ≤ 1.5 mg [Option ID = 14423]
4. Zero [Option ID = 14424]

7) In preparation of kheer usually

- A. High grade rice is added @ 5% of milk.
- B. Clean sugar is added @10% of milk.
- C. Final concentration of 2:1 is desirable.

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

[Question ID = 3607][Question Description = 107_59_LPT_SEP22_Q07]

1. Only A is correct [Option ID = 14425]
2. A and B are correct [Option ID = 14426]
3. A and C are correct [Option ID = 14427]
4. Only C is correct [Option ID = 14428]

8) The overrun in kulfi is [Question ID = 3608][Question Description = 108_59_LPT_SEP22_Q08]

1. about 10% [Option ID = 14429]
2. About 20% [Option ID = 14430]
3. About 30% [Option ID = 14431]
4. Practically Nil [Option ID = 14432]

9) The genes associated with an abnormally fast rate of pH fall during PM glycolysis [Question ID = 3609][Question Description = 109_59_LPT_SEP22_Q09]

1. Halⁿ [Option ID = 14433]
2. RN⁻ [Option ID = 14434]
3. pgk gene [Option ID = 14435]
4. pykA [Option ID = 14436]

10) Haggis type products are made from of calves and sheep with oatmeal added, heavily seasoned and cooked in sheep's stomach

- A. liver
- B. lungs
- C. heart
- D. spleen
- E. instestine

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

[Question ID = 3610][Question Description = 110_59_LPT_SEP22_Q10]

1. A, B and C only [Option ID = 14437]
2. C, D and E only [Option ID = 14438]
3. A, C and E only [Option ID = 14439]
4. A, B and D only [Option ID = 14440]

11) The offals (variety meat) from buffalo carcass with highest content of Vit A (IU)

[Question ID = 3611][Question Description = 111_59_LPT_SEP22_Q11]

1. Brain
[Option ID = 14441]
2. Lungs
[Option ID = 14442]
3. Tongue
[Option ID = 14443]
4. Liver
[Option ID = 14444]

12) As per FSSAI standards, the permitted level of milk fat % (Min) on dry matter basis in low fat paneer is

[Question ID = 3612][Question Description = 112_59_LPT_SEP22_Q12]

1. Minimum 10% [Option ID = 14445]
2. Minimum 20% [Option ID = 14446]
3. Maximum 10% [Option ID = 14447]
4. Maximum 20% [Option ID = 14448]

13) The bacterial growth factor for a milk held for 18h at 5°C is

[Question ID = 3613][Question Description = 113_59_LPT_SEP22_Q13]

1. 1.00 [Option ID = 14449]
2. 1.05 [Option ID = 14450]
3. 1.80 [Option ID = 14451]

4. 10.00 [Option ID = 14452]

14) The statements below are about bottle sterilization of milk

- A. Heating is carried out at 108-111°C for 25-30 minutes
- B. Sterilized milk is fit for consumption at least 3 days at room temperature
- C. Useful for feeding of infants
- D. Too slow cooling during processing leads to browning/carmelization

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

[Question ID = 3614][Question Description = 114_59_LPT_SEP22_Q14]

- 1. A, B and D only [Option ID = 14453]
- 2. A, C and D only [Option ID = 14454]
- 3. B, C and D only [Option ID = 14455]
- 4. A, B and C only [Option ID = 14456]

15) The basic viscosity of ice cream mix is[Question ID = 3615][Question Description = 115_59_LPT_SEP22_Q15]

- 1. 1-50 Centipoise [Option ID = 14457]
- 2. 50-300 Centipoise [Option ID = 14458]
- 3. 400-600 Centipoise [Option ID = 14459]
- 4. >1000 Centipoise [Option ID = 14460]

16) The category of organism that grows in widest pH range is[Question ID = 3616][Question Description = 116_59_LPT_SEP22_Q16]

- 1. G +ve organism [Option ID = 14461]
- 2. Yeast [Option ID = 14462]
- 3. Moulds [Option ID = 14463]
- 4. G -ve organism [Option ID = 14464]

17) The lowest reported value of water activity (a_w) for food borne bacteria is[Question ID = 3617][Question Description = 117_59_LPT_SEP22_Q17]

- 1. 0.60 [Option ID = 14465]
- 2. 0.65 [Option ID = 14466]
- 3. 0.75 [Option ID = 14467]
- 4. 0.86 [Option ID = 14468]

18) The organism that have optimal growth in range of 20-30°C are[Question ID = 3618][Question Description = 118_59_LPT_SEP22_Q18]

- 1. Psychrotrophs [Option ID = 14469]
- 2. Mesophiles [Option ID = 14470]
- 3. Mesotrophs [Option ID = 14471]
- 4. Yeast and moulds [Option ID = 14472]

19) During enzymatic fermentation for desugarization of egg, glucose oxidase catalyzes the oxidation of

[Question ID = 3619][Question Description = 119_59_LPT_SEP22_Q19]

- 1. Glucose to gluconic acid [Option ID = 14473]
- 2. Glucose to glucaric acid [Option ID = 14474]
- 3. Glucose to formic acid [Option ID = 14475]
- 4. Glucose to ascorbic acid [Option ID = 14476]

20) In production of flavour and aroma of fermented milk products[Question ID = 3620][Question Description = 120_59_LPT_SEP22_Q20]

- 1. Homolactis play more important role [Option ID = 14477]
- 2. Heterolactis play more important role [Option ID = 14478]
- 3. Both Homolactis and Heterolactis equally important [Option ID = 14479]
- 4. Nothing specific depends on products [Option ID = 14480]

21) The amino acid residue absent in myoglobins from livestock and poultry is

[Question ID = 3621][Question Description = 121_59_LPT_SEP22_Q21]

- 1. Lysine [Option ID = 14481]
- 2. Cysteine [Option ID = 14482]
- 3. Histidine [Option ID = 14483]
- 4. Proline [Option ID = 14484]

22) Callipyge phenotype in sheep is expressed due to genotypic combination of callipyge gene as[Question ID = 3622]
[Question Description = 122_59_LPT_SEP22_Q22]

1. CN [Option ID = 14485]
2. NN [Option ID = 14486]
3. CC [Option ID = 14487]
4. NC [Option ID = 14488]

23) Meat in meat products should contain no more than collagen to maintain their structure and acceptability[Question ID = 3623][Question Description = 123_59_LPT_SEP22_Q23]

1. 10% [Option ID = 14489]
2. 15% [Option ID = 14490]
3. 25% [Option ID = 14491]
4. 40% [Option ID = 14492]

24) The rate of development of cooking loss is greatest between[Question ID = 3624][Question Description = 124_59_LPT_SEP22_Q24]

1. 30-40°C [Option ID = 14493]
2. 40-50°C [Option ID = 14494]
3. 50-70°C [Option ID = 14495]
4. 70-90°C [Option ID = 14496]

25) Anton test is used to assess the virulence of[Question ID = 3625][Question Description = 125_59_LPT_SEP22_Q25]

1. *Clostridium spp* [Option ID = 14497]
2. *Listeria spp* [Option ID = 14498]
3. *Shigella spp* [Option ID = 14499]
4. Enteroinvasive *E. coli* (EIEC) strain [Option ID = 14500]

26) The following cities are the grading centres of wool in India[Question ID = 3626][Question Description = 126_59_LPT_SEP22_Q26]

1. Jaipur and Bikaner only [Option ID = 14501]
2. Jaipur, Bikaner and Jodhpur only [Option ID = 14502]
3. Jaipur and Ajmer only [Option ID = 14503]
4. Jaipur, Bikaner, Ajmer and Jodhpur [Option ID = 14504]

27) The main function of middle layer of multi-layered packaging pouch is[Question ID = 3627][Question Description = 127_59_LPT_SEP22_Q27]

1. To provide strength to packaging material [Option ID = 14505]
2. To provide good heat sealability [Option ID = 14506]
3. To act as good moisture barrier [Option ID = 14507]
4. To act as good oxygen barrier [Option ID = 14508]

28) The correct sequence for carton of aseptic packaging (from outside to inside) is as follows:

- A. Polyethylene
- B. Aluminum
- C. Paperboard

Choose the *correct* answer from the options given below

[Question ID = 3628][Question Description = 128_59_LPT_SEP22_Q28]

1. A, C, B, A [Option ID = 14509]
2. A, B, C, B, A [Option ID = 14510]
3. A, C, A, B, A [Option ID = 14511]
4. A, B, A, C, A [Option ID = 14512]

29) Degree of medullation in wool is NOT related to which one of the following parameter?

[Question ID = 3629][Question Description = 129_59_LPT_SEP22_Q29]

1. Coarseness of the wool fibre [Option ID = 14513]
2. Retention of dye in the fibre [Option ID = 14514]
3. Crimp of the wool fibre [Option ID = 14515]
4. Length of the wool fibre [Option ID = 14516]

30) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Marketing of raw pork is controlled by butchers.

Reason R : In villages, local butchers purchase pigs by involving the middlemen.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 3630][Question Description = 130_59_LPT_SEP22_Q30]

1. Both A and R are true and R is the correct explanation of A [Option ID = 14517]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 14518]
3. A is true but R is false [Option ID = 14519]
4. A is false but R is true [Option ID = 14520]

31) Secondary sealing in non-shrink packaging was introduced to overcome which one of the following problem?

[Question ID = 3631][Question Description = 131_59_LPT_SEP22_Q31]

1. Discolouration [Option ID = 14521]
2. Purge [Option ID = 14522]
3. Meat pigment oxidation [Option ID = 14523]
4. Growth of spoilage organisms [Option ID = 14524]

32) Which of the following statements are true for worsted yarn?

- A. Worsted yarn is coarse and more compact.
- B. It has longer fibres that lie parallel along the length of the yarn.
- C. It has longer fibres that lie perpendicular to the length of the yarn.
- D. Worsted yarn is less warm but more fine as compared to woollen yarn.

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

[Question ID = 3632][Question Description = 132_59_LPT_SEP22_Q32]

1. A, B and D only [Option ID = 14525]
2. B and C only [Option ID = 14526]
3. C and D only [Option ID = 14527]
4. B and D only [Option ID = 14528]

33) At what temperature is shrink bag method for packaging of meat performed?

[Question ID = 3633][Question Description = 133_59_LPT_SEP22_Q33]

1. < 50° [Option ID = 14529]
2. 60° [Option ID = 14530]
3. 90° [Option ID = 14531]
4. > 120° [Option ID = 14532]

34) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Marketing is a wide term.

Reason R : Marketing involves a whole range of activities relating to planning, pricing, promoting and distributing the products that satisfy customer's needs.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 3634][Question Description = 134_59_LPT_SEP22_Q34]

1. Both A and R are true and R is the correct explanation of A [Option ID = 14533]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 14534]
3. A is true but R is false [Option ID = 14535]
4. A is false but R is true [Option ID = 14536]

35) Which of the following structures grow in primary wool follicles?[Question ID = 3635][Question Description = 135_59_LPT_SEP22_Q35]

1. Hairs, coarse wool and kemp [Option ID = 14537]
2. Kemp and true wool [Option ID = 14538]
3. Hairs and true wool [Option ID = 14539]
4. Hairs, kemp, true and coarse wool [Option ID = 14540]

36) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Primrosing defect is associated with packaged butter

Reason R : Butter contains more than 80% fat.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 3636][Question Description = 136_59_LPT_SEP22_Q36]

1. Both A and R are true and R is the correct explanation of A [Option ID = 14541]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 14542]
3. A is true but R is false [Option ID = 14543]
4. A is false but R is true [Option ID = 14544]

37) Which one of the following polymer is used as a printing surface?

[Question ID = 3637][Question Description = 137_59_LPT_SEP22_Q37]

1. Polypropylene [Option ID = 14545]
2. Polyester [Option ID = 14546]
3. Aluminum foil [Option ID = 14547]
4. Nylon [Option ID = 14548]

38) Which one of the following term refers to the volume of sale of particular product manufactured by a particular firm in relation to the total volume of sale of that product?

[Question ID = 3638][Question Description = 138_59_LPT_SEP22_Q38]

1. Total Market Demand [Option ID = 14549]
2. Market Share [Option ID = 14550]
3. Marketing Channel [Option ID = 14551]
4. Vertical Integration system of marketing [Option ID = 14552]

39) International Woollen Textile Organization is located at which one of the following cities?

[Question ID = 3639][Question Description = 139_59_LPT_SEP22_Q39]

1. Sydney [Option ID = 14553]
2. Brussels [Option ID = 14554]
3. Paris [Option ID = 14555]
4. Chicago [Option ID = 14556]

40) The average fineness of coarse, long hair fibres ranges between

[Question ID = 3640][Question Description = 140_59_LPT_SEP22_Q40]

1. 10 and 20 μ
[Option ID = 14557]
2. 20 and 30 μ
[Option ID = 14558]
3. > 30 μ
[Option ID = 14559]
4. < 10 μ
[Option ID = 14560]

41) Which of the following statements are true for convenience meat products?

- A. They undergo major processing by the manufacturers
- B. Ready-to-cook products do not fall under this category.
- C. It creates a good market demand.
- D. They save time but provide less utilization of the commodity.

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

[Question ID = 3641][Question Description = 141_59_LPT_SEP22_Q41]

1. A, B and C only [Option ID = 14561]
2. B, C and D only [Option ID = 14562]
3. A and B only [Option ID = 14563]
4. A only [Option ID = 14564]

42) Match List I with List II

List I	List II
Particulars	Methods
A. Mohair	I. Combing
B. Pelt	II. Clipping
C. Pashmina	III. Shearing
D. Wool	IV. Fur

Choose the correct answer from the options given below:

[Question ID = 3642][Question Description = 142_59_LPT_SEP22_Q42]

1. A - III, B - I, C - II, D - IV [Option ID = 14565]
2. A - II, B - I, C - III, D - IV [Option ID = 14566]
3. A - II, B - IV, C - I, D - III [Option ID = 14567]
4. A - I, B - II, C - IV, D - III [Option ID = 14568]

43) Which one of the following structure is NOT present in true wool?

[Question ID = 3643][Question Description = 143_59_LPT_SEP22_Q43]

1. Cortex [Option ID = 14569]
2. Both Cortex and medulla [Option ID = 14570]
3. Medulla [Option ID = 14571]
4. Both Cuticle and Medulla [Option ID = 14572]

44) Which of the following packaging materials are used to make 'ovenable' trays for frozen foods?[Question ID = 3644]

[Question Description = 144_59_LPT_SEP22_Q44]

1. Low density polyethylene [Option ID = 14573]
2. High density polyethylene [Option ID = 14574]
3. Poly ethylene terephthalate [Option ID = 14575]
4. Poly vinylidene chloride [Option ID = 14576]

45) 'Nihari' is the processed meat product specific to which part of India?[Question ID = 3645][Question Description = 145_59_LPT_SEP22_Q45]

1. Kolkata [Option ID = 14577]
2. Bhubaneshwar [Option ID = 14578]
3. Delhi [Option ID = 14579]
4. Rohtak [Option ID = 14580]

46) Where is Indian Institute of Packaging located at?[Question ID = 3646][Question Description = 146_59_LPT_SEP22_Q46]

1. Kolkata [Option ID = 14581]
2. New Delhi [Option ID = 14582]
3. Bangalore [Option ID = 14583]
4. Indore [Option ID = 14584]

47) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Oxygen should be rigorously removed from the meat package for maintaining red colour.

Reason R : Red meat color is adversely affected by high-carbon dioxide atmosphere.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 3647][Question Description = 147_59_LPT_SEP22_Q47]

1. Both A and R are true and R is the correct explanation of A [Option ID = 14585]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 14586]
3. A is true but R is false [Option ID = 14587]
4. A is false but R is true [Option ID = 14588]

48) Canary colouration of wool is associated with breakdown of which one of the following amino-acid?

[Question ID = 3648][Question Description = 148_59_LPT_SEP22_Q48]

1. Tryptophan [Option ID = 14589]
2. Glycine [Option ID = 14590]
3. Cysteine [Option ID = 14591]
4. Methionine [Option ID = 14592]

49) Water vapour transmission rate is lowest in which one of the following packaging material?

[Question ID = 3649][Question Description = 149_59_LPT_SEP22_Q49]

1. Low density polyethylene [Option ID = 14593]
2. Polyvinylidene chloride [Option ID = 14594]
3. Polypropylene [Option ID = 14595]
4. Polyester [Option ID = 14596]

50) The following state has permitted cow slaughter with/without restrictions.[Question ID = 3650][Question Description = 150_59_LPT_SEP22_Q50]

1. Jammu & Kashmir [Option ID = 14597]
2. Haryana [Option ID = 14598]
3. Orissa [Option ID = 14599]
4. West Bengal [Option ID = 14600]