

## 47 Food and Nutrition 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:- Community Science\_PHD

**1) The most efficient material in terms of easy care and maintenance is:**

**[Question ID = 5051][Question Description = 101\_114\_BHS\_SEP22\_Q01]**

1. PVC  
[Option ID = 20201]
2. Brass  
[Option ID = 20202]
3. Stainless steel  
[Option ID = 20203]
4. Aluminium [Option ID = 20204]

**2) The city of Chandigarh was designed by:**

**[Question ID = 5052][Question Description = 102\_114\_BHS\_SEP22\_Q02]**

1. Edward Luteyen  
[Option ID = 20205]
2. Walter George  
[Option ID = 20206]
3. Le Corbusier  
[Option ID = 20207]
4. Joseph Stein [Option ID = 20208]

**3) The most effective method for lifting loads from the lower level is:**

**[Question ID = 5053][Question Description = 103\_114\_BHS\_SEP22\_Q03]**

1. Derrick action [Option ID = 20209]
2. Forearm action [Option ID = 20210]
3. Knee action  
[Option ID = 20211]
4. Upper arm action [Option ID = 20212]

**4) RFID in retailing is used for**

**[Question ID = 5054][Question Description = 104\_114\_BHS\_SEP22\_Q04]**

1. data inventory [Option ID = 20213]
2. security [Option ID = 20214]
3. personnel management [Option ID = 20215]
4. marketing [Option ID = 20216]

**5) A brand or part of a brand that is given legal protection because it is capable of exclusive appropriation, is defined as:**

**[Question ID = 5055][Question Description = 105\_114\_BHS\_SEP22\_Q05]**

1. Brand Name  
[Option ID = 20217]
2. Certification Mark  
[Option ID = 20218]
3. Trade Mark  
[Option ID = 20219]
4. Batch Number [Option ID = 20220]

**6) Which one of the following chemicals is used to test presence of starch in milk?**

[Question ID = 5056][Question Description = 106\_114\_BHS\_SEP22\_Q06]

1. Sulphuric acid  
[Option ID = 20221]
2. Iodine  
[Option ID = 20222]
3. Hydrochloric acid  
[Option ID = 20223]
4. Carbon tetrachloride [Option ID = 20224]

7) The principles of Body Mechanics include:

- A. Taking advantage of the momentum
- B. Using muscles effectively
- C. Considering the centre of gravity
- D. Analytical approach to a job
- E. Application of time and energy efficiency

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

[Question ID = 5057][Question Description = 107\_114\_BHS\_SEP22\_Q07]

1. A, B and D only [Option ID = 20225]
2. A, B and C only [Option ID = 20226]
3. B, D and E only [Option ID = 20227]
4. C, D and E only [Option ID = 20228]

8) Which of the following serve as a basis for classifying standards?

- A. Space
- B. Measurability
- C. Content
- D. Degree of flexibility
- E. Time

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

[Question ID = 5058][Question Description = 108\_114\_BHS\_SEP22\_Q08]

1. A, B and D only [Option ID = 20229]
2. B, C and E only [Option ID = 20230]
3. B, C and D only [Option ID = 20231]
4. A, D and E only [Option ID = 20232]

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

Assertion A : General fatigue occurs due to the stress when performing tedious and boring activities that lead to personal dissatisfaction.

Reason R : Strenuous and disliked activities lead to fatigue and stress due to dissatisfaction from work.

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

[Question ID = 5059][Question Description = 109\_114\_BHS\_SEP22\_Q09]

1. Both A and R are correct and R is the correct explanation of A [Option ID = 20233]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 20234]
3. A is true but R is false [Option ID = 20235]
4. A is false but R is true [Option ID = 20236]

10) Match List I with List II

List I	List II
Types of Events	Examples of Events
A. Religious events	I. Olympics, World cup
B. Family events	II. Seminar, workshops
C. Educational events	III. Diwali fair, katha
D. Sports events	IV. New product launch

V. Birthdays, Weddings

Choose the correct answer from the options given below:

[Question ID = 5060][Question Description = 110\_114\_BHS\_SEP22\_Q10]

1. A - IV, B - III, C - II, D - I [Option ID = 20237]
2. A - III, B - V, C - II, D - I [Option ID = 20238]
3. A - III, B - IV, C - I, D - II [Option ID = 20239]
4. A - I, B - IV, C - II, D - III [Option ID = 20240]

11) Which of the following is a centerless thread package used in multineedle Quilting machine?[Question ID = 5061]

[Question Description = 111\_114\_BHS\_SEP22\_Q11]

1. Spools [Option ID = 20241]
2. Cops [Option ID = 20242]
3. Cones [Option ID = 20243]
4. Cacoons [Option ID = 20244]

12) Which one of the following is a process for setting the luster on wool, silk and spun silk?

[Question ID = 5062][Question Description = 112\_114\_BHS\_SEP22\_Q12]

1. Decating [Option ID = 20245]
2. Creping [Option ID = 20246]
3. Carbonizing [Option ID = 20247]
4. Burling [Option ID = 20248]

13) Which one of the following is the embroidered piece used to wrap brides trousseau?

[Question ID = 5063][Question Description = 113\_114\_BHS\_SEP22\_Q13]

1. Alpona [Option ID = 20249]
2. Chokla [Option ID = 20250]
3. Kanbi [Option ID = 20251]
4. Nakatu [Option ID = 20252]

14) Which one of the following is a precipitating type of water softener?

[Question ID = 5064][Question Description = 114\_114\_BHS\_SEP22\_Q14]

1. Borateem [Option ID = 20253]
2. Calgon [Option ID = 20254]
3. Oakite [Option ID = 20255]
4. Axion [Option ID = 20256]

15) Percale is a fabric suitable for making:[Question ID = 5065][Question Description = 115\_114\_BHS\_SEP22\_Q15]

1. Dish cloth [Option ID = 20257]
2. Curtains [Option ID = 20258]
3. Bedsheets [Option ID = 20259]
4. Floor mats [Option ID = 20260]

16) In European women's costume, Paniers referred to:[Question ID = 5066][Question Description = 116\_114\_BHS\_SEP22\_Q16]

1. Whale bone bands worn to support the fullness of skirt at the back. [Option ID = 20261]
2. Whale bone bands stitched into petticoats giving A-line shape to skirts [Option ID = 20262]
3. Light weight flexible metal cages giving bell shape to skirts. [Option ID = 20263]
4. Whale bone cages extending sideways at hips, making front and back appear flat. [Option ID = 20264]

17) The following features add to the quality of terry cloth:

- A. Each loop should be 1/8<sup>th</sup> inch deep.
- B. Ground work should be of twill weave.
- C. Weave should be loose with balanced count.
- D. Ground warps should be of single yarns.
- E. Double thread method is used.

Choose the correct answer from the options given below:

[Question ID = 5067][Question Description = 117\_114\_BHS\_SEP22\_Q17]

1. A, B and C only [Option ID = 20265]
2. A, B and E only [Option ID = 20266]

3. B, D and E only [Option ID = 20267]
4. C, D and E only [Option ID = 20268]

**18) Match List I with List II**

List I	List II
Defects	Description
A. Strike back	I. Resins used liquify and run together to form a resin coating instead of being retained in a dotted manner
B. Strike through	II. Interlining gets puckered
C. Bubbling	III. Resin gets stuck to the fusing press or conveyer
D. Boardiness	IV. Penetration of resin to the face of the shell fabric

Choose the correct answer from the options given below:

[Question ID = 5068][Question Description = 118\_114\_BHS\_SEP22\_Q18]

1. A - III, B - IV, C - II, D - I [Option ID = 20269]
2. A - III, B - IV, C - I, D - II [Option ID = 20270]
3. A - II, B - I, C - III, D - IV [Option ID = 20271]
4. A - III, B - I, C - II, D - IV [Option ID = 20272]

**19) Given below are two statements**

**Statement I:** Counterfeiting and knock off are same.

**Statement II:** Both are acts of making an imitation of an original with the intent to defraud.

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

[Question ID = 5069][Question Description = 119\_114\_BHS\_SEP22\_Q19]

1. Both Statement I and Statement II are correct [Option ID = 20273]
2. Both Statement I and Statement II are incorrect [Option ID = 20274]
3. Statement I is correct but Statement II is incorrect [Option ID = 20275]
4. Statement I is incorrect but Statement II is correct [Option ID = 20276]

**20) Given below are two statements**

**Statement I:** For a nap up and down marker, pattern pieces of one size are placed in one direction and all the pieces of another size in the other direction.

**Statement II:** It ensures that patterns of different sizes are cut on the correct nap.

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

[Question ID = 5070][Question Description = 120\_114\_BHS\_SEP22\_Q20]

1. Both Statement I and Statement II are correct [Option ID = 20277]
2. Both Statement I and Statement II are incorrect [Option ID = 20278]
3. Statement I is correct but Statement II is incorrect [Option ID = 20279]
4. Statement I is incorrect but Statement II is correct [Option ID = 20280]

**21) Seema likes to mimic her parents cooking dinner by playing with pots and pans and pretending to cook. According to Piaget's theory of Cognitive Development, it is referred to as:**

[Question ID = 5071][Question Description = 121\_114\_BHS\_SEP22\_Q21]

1. Adult games [Option ID = 20281]
2. Deferred imitation [Option ID = 20282]
3. Associative play [Option ID = 20283]
4. Conservation [Option ID = 20284]

**22) The written description of a culture that is documented by researchers, is called:**

[Question ID = 5072][Question Description = 122\_114\_BHS\_SEP22\_Q22]

1. Indography [Option ID = 20285]
2. Ethnicity [Option ID = 20286]
3. Ethnocide [Option ID = 20287]
4. Ethnography [Option ID = 20288]

**23) Which of the following would be the most appropriate practice for a parent explaining something to an adolescent?**

[Question ID = 5073][Question Description = 123\_114\_BHS\_SEP22\_Q23]

1. Discussing and listening [Option ID = 20289]
2. Scolding and rebuking [Option ID = 20290]
3. Comparing with others of his/her age [Option ID = 20291]
4. Giving instructions politely [Option ID = 20292]

**24) The 'Protection of Children against Sexual Offences Act' was enacted in:[Question ID = 5074][Question Description = 124\_114\_BHS\_SEP22\_Q24]**

1. 2012 [Option ID = 20293]
2. 1986 [Option ID = 20294]
3. 2009 [Option ID = 20295]
4. 1995 [Option ID = 20296]

**25) The teacher says that boys should play with blocks and toy cars and girls should play with dolls. S/he is exhibiting:[Question ID = 5075][Question Description = 125\_114\_BHS\_SEP22\_Q25]**

1. Gender stigma [Option ID = 20297]
2. Gender stereotypes [Option ID = 20298]
3. Racial discrimination [Option ID = 20299]
4. Gender constancy [Option ID = 20300]

**26) In the area of Specific Learning Disabilities, the name for inability to understand meaning of numbers is called?[Question ID = 5076][Question Description = 126\_114\_BHS\_SEP22\_Q26]**

1. Dyspraxia [Option ID = 20301]
2. Dyslexia [Option ID = 20302]
3. Dyscalculia [Option ID = 20303]
4. Dysphasia [Option ID = 20304]

**27) John Locke proposed the philosophy regarding a child as being:**

- A. Tabula rasa
- B. Basically evil
- C. Shaped by all kind of experiences
- D. Refuted the idea of innate knowledge

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

**[Question ID = 5077][Question Description = 127\_114\_BHS\_SEP22\_Q27]**

1. A, B and D only [Option ID = 20305]
2. A, B and C only [Option ID = 20306]
3. B, C and D only [Option ID = 20307]
4. A, C and D only [Option ID = 20308]

**28) Which of the activities promote fine motor skills in children?**

- A. Jumping and dancing
- B. Threading beads
- C. Cutting and pasting
- D. Drawing and colouring

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

**[Question ID = 5078][Question Description = 128\_114\_BHS\_SEP22\_Q28]**

1. A, B and D only [Option ID = 20309]
2. A, B and C only [Option ID = 20310]
3. B, C and D only [Option ID = 20311]
4. A, C and D only [Option ID = 20312]

**29) Match List I with List II**

List I	List II
Age Group	Motor milestones achieved
A. 3 weeks-4 months	I. Rolls from back to side
B. 2-7 months	II. When held upright holds head erect and steady
C. 5-12 months	III. Ties shoe laces
D. 12-23 months	IV. Pulls to standing position



V. Walks upstairs with help

Choose the correct answer from the options given below:

[Question ID = 5079][Question Description = 129\_114\_BHS\_SEP22\_Q29]

1. A - I, B - II, C - V, D - IV [Option ID = 20313]
2. A - II, B - I, C - IV, D - V [Option ID = 20314]
3. A - II, B - I, C - IV, D - III [Option ID = 20315]
4. A - II, B - I, C - III, D - V [Option ID = 20316]

30) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
Assertion A : When pre-schoolers are not cared for by their parents they develop Down Syndrome

Reason R: Caring for children leads to a greater sense of well-being and this prevents onset of Down Syndrome

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

[Question ID = 5080][Question Description = 130\_114\_BHS\_SEP22\_Q30]

1. Both A and R are true and R is the correct explanation of A [Option ID = 20317]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 20318]
3. Both A and R are false [Option ID = 20319]
4. A is false but R is true [Option ID = 20320]

31) Dextrins are formed:[Question ID = 5081][Question Description = 131\_114\_BHS\_SEP22\_Q31]

1. on the base of utensil when milk is heated [Option ID = 20321]
2. when sugar caramelized to make peanut brittles [Option ID = 20322]
3. while making brown bread [Option ID = 20323]
4. while toasting of bread [Option ID = 20324]

32) Which one of the following is NOT a misleading health claims exhibited by manufacturer?

[Question ID = 5082][Question Description = 132\_114\_BHS\_SEP22\_Q32]

1. "Cholesterol free" on a packet of vegetable oil [Option ID = 20325]
2. Flavanoids are "good for health" on a packet of tea [Option ID = 20326]
3. "Sugar free" (less than 0.5g sugar) on a packet of sweets [Option ID = 20327]
4. Processed food Z "Good for Health" [Option ID = 20328]

33) Which of the following statement is wrong in the context of conserving nutrients?[Question ID = 5083][Question Description = 133\_114\_BHS\_SEP22\_Q33]

1. Vegetables should be peeled, cut and washed thoroughly before cooking [Option ID = 20329]
2. Finer the cut of vegetables, fruits greater is the loss of nutrients while cooking [Option ID = 20330]
3. Avoid removing edible peels of fruit and vegetables [Option ID = 20331]
4. Storing chopped vegetables/fruits at refrigerated temperature, causes loss of nutrients [Option ID = 20332]

34) Some nutrients are bound to certain substances present in the food as a result, these nutrients are not available to the human body. This is known as:[Question ID = 5084][Question Description = 134\_114\_BHS\_SEP22\_Q34]

1. Enrichment [Option ID = 20333]
2. Denaturation [Option ID = 20334]
3. Bioavailability [Option ID = 20335]
4. Enhancement [Option ID = 20336]

35) Adulteration of mustard oil with argemone oil leads to:[Question ID = 5085][Question Description = 135\_114\_BHS\_SEP22\_Q35]

1. Lathyrism [Option ID = 20337]
2. Anaemia [Option ID = 20338]
3. Blindness [Option ID = 20339]
4. Epidemic dropsy [Option ID = 20340]

36) The fatty acids which CANNOT be synthesized by the body, are referred to as \_\_\_\_\_ fatty acids

[Question ID = 5086][Question Description = 136\_114\_BHS\_SEP22\_Q36]

1. Saturated [Option ID = 20341]
2. Unsaturated [Option ID = 20342]
3. Essential [Option ID = 20343]
4. Non Essential [Option ID = 20344]

37) Which of the following vegetable oils are rich in n-3 fatty acids?

- A. Mustard
- B. Sunflower
- C. Soyabean
- D. Flaxseed
- E. Groundnut

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

[Question ID = 5087][Question Description = 137\_114\_BHS\_SEP22\_Q37]

1. A, B and E only [Option ID = 20345]
2. B, C and D only [Option ID = 20346]
3. C, D and E only [Option ID = 20347]
4. A, C and D only [Option ID = 20348]

38) Rich dietary sources of riboflavin include:

- A. Green leafy vegetables
- B. Whole grain cereals
- C. Nuts and Oilseeds
- D. Organ meat (Liver, kidney, heart)
- E. Milk

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

[Question ID = 5088][Question Description = 138\_114\_BHS\_SEP22\_Q38]

1. A, D and E only [Option ID = 20349]
2. B, C and E only [Option ID = 20350]
3. A, C and D only [Option ID = 20351]
4. B, C and D only [Option ID = 20352]

39) Match List I with List II

List I	List II
Phytochemicals	Food Sources
A. Allicin	I. Oat flour, barley rye
B. Curcumin	II. Cucumber
C. Beta glucan	III. Flaxseed
D. Lignan	IV. Turmeric
	V. Garlic, onion, chives

Choose the correct answer from the options given below:

[Question ID = 5089][Question Description = 139\_114\_BHS\_SEP22\_Q39]

1. A - II , B - IV, C - III, D - V [Option ID = 20353]
2. A - III, B - V, C - IV, D - II [Option ID = 20354]
3. A - V, B - IV, C - I, D - III [Option ID = 20355]
4. A - IV, B - III, C - V , D - I [Option ID = 20356]

40) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
 Assertion A : The principle of organic farming has been applied for the development of golden rice

Reason R : Golden rice is a transgenic variety of rice intended to supply Vitamin A to prevent blindness

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

[Question ID = 5090][Question Description = 140\_114\_BHS\_SEP22\_Q40]

1. Both A and R are true and R is the correct explanation of A [Option ID = 20357]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 20358]
3. A is true but R is false [Option ID = 20359]
4. A is false but R is true [Option ID = 20360]

41) The concept in mass communication that "Medium is the Message" was proposed by -

[Question ID = 5091][Question Description = 141\_114\_BHS\_SEP22\_Q41]

1. Aristotle [Option ID = 20361]
2. Riley [Option ID = 20362]

3. Thompson [Option ID = 20363]
4. McLuhan [Option ID = 20364]

**42) The literacy rate of women in the country as per the 2011 Census was about-[Question ID = 5092][Question Description = 142\_114\_BHS\_SEP22\_Q42]**

1. 55% [Option ID = 20365]
2. 60% [Option ID = 20366]
3. 65% [Option ID = 20367]
4. 70% [Option ID = 20368]

**43) NSIFS is being promoted for enhancing food security, by extension systems NSIFS means:**

**[Question ID = 5093][Question Description = 143\_114\_BHS\_SEP22\_Q43]**

1. National Statistics Integrated Farming Study [Option ID = 20369]
2. National Scheme In Farming Systems [Option ID = 20370]
3. Nutrition Strengthening In Fortified Seeds [Option ID = 20371]
4. Nutri Sensitive Integrated Farming System [Option ID = 20372]

**44) Andragogy is the science of teaching-[Question ID = 5094][Question Description = 144\_114\_BHS\_SEP22\_Q44]**

1. Urban clientele [Option ID = 20373]
2. Rural Clientele [Option ID = 20374]
3. Adolescents [Option ID = 20375]
4. Adults [Option ID = 20376]

**45) Proxemics in the field of Non-verbal communication is about the role of which of the following factors?**

**[Question ID = 5095][Question Description = 145\_114\_BHS\_SEP22\_Q45]**

1. Time [Option ID = 20377]
2. Distance [Option ID = 20378]
3. Speed [Option ID = 20379]
4. Volume [Option ID = 20380]

**46) Udyam Sakhi portal for women entrepreneurs has been launched by-[Question ID = 5096][Question Description = 146\_114\_BHS\_SEP22\_Q46]**

1. Ministry of Women and Child Development [Option ID = 20381]
2. Skill India Programme [Option ID = 20382]
3. Ministry of MSME [Option ID = 20383]
4. Ministry of Finance [Option ID = 20384]

**47) The perceived characteristics of innovations to be adopted are-**

- A. Relationship
- B. Simplicity
- C. Relative advantage
- D. Control
- E. Triability

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

**[Question ID = 5097][Question Description = 147\_114\_BHS\_SEP22\_Q47]**

1. A, B and D only [Option ID = 20385]
2. A, B and E only [Option ID = 20386]
3. B, C and D only [Option ID = 20387]
4. B, C and E only [Option ID = 20388]

**48) Which of the following are true about implementation of ICTs in agricultural development-**

- A. Difficulty in localisation of content
- B. Unavailability of actual results of initiatives already taken
- C. Availability of specific information
- D. Free flow of Information between farmers and implementers
- E. Smooth coordination between implementing agencies

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

[Question ID = 5098][Question Description = 148\_114\_BHS\_SEP22\_Q48]

1. A and B only [Option ID = 20389]
2. B and C only [Option ID = 20390]
3. C and D only [Option ID = 20391]
4. D and E only [Option ID = 20392]

49) Match List I with List II

List I	List II
Function of Communication	Example
A. Information	I. Director's notice for the students to pay fee by the given date
B. Instruction	II. Date of demonstration for Demonstration
C. Influence	III. Sharing benefits after result demonstration
D. Integration	IV. Invitation to attend an event
	V. Organisation of a community event

Choose the correct answer from the options given below:

[Question ID = 5099][Question Description = 149\_114\_BHS\_SEP22\_Q49]

1. A - I , B - III , C - IV , D - V [Option ID = 20393]
2. A - II , B - I , C - III , D - V [Option ID = 20394]
3. A - III , B - II , C - I , D - IV [Option ID = 20395]
4. A - IV , B - V , C - I , D - II [Option ID = 20396]

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

Assertion A : PURA strategy for rural development was proposed by Shri AB Vajpayee.

Reason R : PURA proposed urban infrastructure and services to be provided in rural areas to create opportunities outside the cities.

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

[Question ID = 5100][Question Description = 150\_114\_BHS\_SEP22\_Q50]

1. Both A and R are true and R is the correct explanation of A [Option ID = 20397]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 20398]
3. A is true but R is false [Option ID = 20399]
4. A is false but R is true [Option ID = 20400]

Topic:- 47 Food and Nutrition\_PHD

1) Low Weight for Height is indicative of:

[Question ID = 5251][Question Description = 101\_115\_FSN\_SEP22\_Q01]

1. Wasting [Option ID = 21001]
2. Underweight [Option ID = 21002]
3. Stunting [Option ID = 21003]
4. Overweight [Option ID = 21004]

2) ICMR recommends an intake of about \_\_\_\_\_ g fibre per 2000 Kcal

[Question ID = 5252][Question Description = 102\_115\_FSN\_SEP22\_Q02]

1. 15 [Option ID = 21005]
2. 20 [Option ID = 21006]
3. 30 [Option ID = 21007]
4. 50 [Option ID = 21008]

3) ICMR recommends that the density of ascorbic acid in the daily diet should be at least \_\_\_\_\_ mg/1000Kcal for improved iron absorption.[Question ID = 5253][Question Description = 103\_115\_FSN\_SEP22\_Q03]

1. 10 [Option ID = 21009]
2. 20 [Option ID = 21010]
3. 40 [Option ID = 21011]
4. 60 [Option ID = 21012]

4) In severe infections with fever the BMR increases by \_\_\_\_\_ % for every 1 degree Centigrade rise in body temperature.

[Question ID = 5254][Question Description = 104\_115\_FSN\_SEP22\_Q04]

1. 13 [Option ID = 21013]
2. 10 [Option ID = 21014]
3. 8 [Option ID = 21015]
4. 5 [Option ID = 21016]

**5) The adequacy of pasteurization of milk can be gauged by which of the following enzyme:[Question ID = 5255][Question Description = 105\_115\_FSN\_SEP22\_Q05]**

1. Rennin [Option ID = 21017]
2. Alkaline phosphatase [Option ID = 21018]
3. Lactoperoxidase [Option ID = 21019]
4. Proteinase [Option ID = 21020]

**6) For a patient suffering from hepatic encephalopathy the dietary guidelines for proteins include:[Question ID = 5256][Question Description = 106\_115\_FSN\_SEP22\_Q06]**

1. 1.5-2 g/kg body weight [Option ID = 21021]
2. 1g/kg body weight [Option ID = 21022]
3. 0.84 g/kg body weight [Option ID = 21023]
4. 0.5 g/kg body weight [Option ID = 21024]

**7) A waist circumference of more than \_\_\_\_\_ cm is indicative of abdominal obesity among women**

**[Question ID = 5257][Question Description = 107\_115\_FSN\_SEP22\_Q07]**

1. 70 [Option ID = 21025]
2. 80 [Option ID = 21026]
3. 85 [Option ID = 21027]
4. 90 [Option ID = 21028]

**8) It is recommended that sufficient amount of \_\_\_\_\_ be included in the diet to obtain Vitamin E[Question ID = 5258][Question Description = 108\_115\_FSN\_SEP22\_Q08]**

1. Vegetable Oil [Option ID = 21029]
2. Fruits and vegetables [Option ID = 21030]
3. Milk [Option ID = 21031]
4. Legumes [Option ID = 21032]

**9) The metabolizable energy (ME) factor for dietary fibre is:[Question ID = 5259][Question Description = 109\_115\_FSN\_SEP22\_Q09]**

1. 0 [Option ID = 21033]
2. 2 [Option ID = 21034]
3. 4 [Option ID = 21035]
4. 9 [Option ID = 21036]

**10) If the mid arm circumference measurement is 13.0 cm you would classify the child as:[Question ID = 5260][Question Description = 110\_115\_FSN\_SEP22\_Q10]**

1. Normal [Option ID = 21037]
2. Mildly malnourished [Option ID = 21038]
3. Moderately malnourished [Option ID = 21039]
4. Severely malnourished [Option ID = 21040]

**11) In enteric fever the infection is found in the :[Question ID = 5261][Question Description = 111\_115\_FSN\_SEP22\_Q11]**

1. Brain [Option ID = 21041]
2. Kidney [Option ID = 21042]
3. Intestine [Option ID = 21043]
4. Lungs [Option ID = 21044]

**12) To ensure good health, the n-6 to n-3 ratio in the diet of an adult should be:[Question ID = 5262][Question Description = 112\_115\_FSN\_SEP22\_Q12]**

1. 3-5:1 [Option ID = 21045]
2. 1:1 [Option ID = 21046]
3. 4-8:1 [Option ID = 21047]
4. 5-10:1 [Option ID = 21048]

**13) The protein content of food stuff is calculated by multiplying its total nitrogen content by a factor:**

**[Question ID = 5263][Question Description = 113\_115\_FSN\_SEP22\_Q13]**

1. 2.25 [Option ID = 21049]
2. 3.25 [Option ID = 21050]

3. 4.25 [Option ID = 21051]
4. 6.25 [Option ID = 21052]

14) A minimum of \_\_\_\_ g of fruits and vegetables/day is recommended by ICMR for meeting the antioxidant needs of an adult

[Question ID = 5264][Question Description = 114\_115\_FSN\_SEP22\_Q14]

1. 400 [Option ID = 21053]
2. 500 [Option ID = 21054]
3. 550 [Option ID = 21055]
4. 600 [Option ID = 21056]

15) A disease characterized by haemolytic anaemia that occurs when individuals who are deficient in glucose-6-phosphate dehydrogenase consume broad beans:[Question ID = 5265][Question Description = 115\_115\_FSN\_SEP22\_Q15]

1. Lathyrism [Option ID = 21057]
2. Favism [Option ID = 21058]
3. Epidemic dropsy [Option ID = 21059]
4. Mycotoxicosis [Option ID = 21060]

16) The energy requirements for children are based on which of the following factors:

- A. BMI
- B. BMR
- C. Physical Activity
- D. Sleeping pattern
- E. Growth

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

[Question ID = 5266][Question Description = 116\_115\_FSN\_SEP22\_Q16]

1. A, B and D only [Option ID = 21061]
2. B, C and E only [Option ID = 21062]
3. A, C and D only [Option ID = 21063]
4. C, D and E only [Option ID = 21064]

17) Which of the following non nutrients have antioxidant properties which may protect against chronic diseases?

- A. Polyphenols
- B. Tannins
- C. Vitamin C
- D. Beta carotene
- E. Flavonoids

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

[Question ID = 5267][Question Description = 117\_115\_FSN\_SEP22\_Q17]

1. A, B and D only [Option ID = 21065]
2. B, C and D only [Option ID = 21066]
3. C, D and E only [Option ID = 21067]
4. A, B and E only [Option ID = 21068]

18) Which of the following are clinical manifestations of Xerophthalmia?

- A. Oedema
- B. Bitot Spot
- C. Keratomalacia
- D. Night blindness
- E. Skin changes

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

[Question ID = 5268][Question Description = 118\_115\_FSN\_SEP22\_Q18]

1. A, B and D only [Option ID = 21069]
2. C, D and E only [Option ID = 21070]
3. B, C and D only [Option ID = 21071]
4. A, C and E only [Option ID = 21072]

19) Which of the following nutrients we need to emphasize in the diet of a patient suffering from tuberculosis?

- A. Iodine
- B. Vitamin D
- C. Calcium
- D. Vitamin A
- E. Vitamin B

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

[Question ID = 5269][Question Description = 119\_115\_FSN\_SEP22\_Q19]

1. A, B and D only [Option ID = 21073]
2. B, C and D only [Option ID = 21074]
3. C, D and E only [Option ID = 21075]
4. A, C and E only [Option ID = 21076]

20) Foods to be avoided/best restricted during constipation include:

- A. Whole wheat, maize, millets
- B. Refined cereals
- C. Pureed fruits and vegetables
- D. Deep fried foods
- E. Green leafy vegetables

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

[Question ID = 5270][Question Description = 120\_115\_FSN\_SEP22\_Q20]

1. A, B and D only [Option ID = 21077]
2. B, C and D only [Option ID = 21078]
3. C, D and E only [Option ID = 21079]
4. A, C and E only [Option ID = 21080]

21) Study of which of the following three aspects constitute the study of Rheology?

- A. Hardness
- B. Viscosity
- C. Elasticity
- D. Plasticity
- E. Chewiness

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

[Question ID = 5271][Question Description = 121\_115\_FSN\_SEP22\_Q21]

1. B, C and D only [Option ID = 21081]
2. A, B and C only [Option ID = 21082]
3. A, B and E only [Option ID = 21083]
4. C, D and E only [Option ID = 21084]

22) Which of the following are non-modifiable risk factor for coronary heart disease?

- A. Hypertension
- B. Sex
- C. Age
- D. Diet

## E. Family history

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

[Question ID = 5272][Question Description = 122\_115\_FSN\_SEP22\_Q22]

1. A, B and C only [Option ID = 21085]
2. B, C and D only [Option ID = 21086]
3. C, D and E only [Option ID = 21087]
4. B, C and E only [Option ID = 21088]

23) Which of the following are fermented products?

A. Bread

B. Jalebi

C. Milk Powder

D. Jam

E. Tofu

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

[Question ID = 5273][Question Description = 123\_115\_FSN\_SEP22\_Q23]

1. A, B and D only [Option ID = 21089]
2. B, C and D only [Option ID = 21090]
3. A, B and E only [Option ID = 21091]
4. C, D and E only [Option ID = 21092]

24) The principles of organic farming include:

A. Use of limited chemical pesticides

B. Smaller quantity of water used

C. Natural way of farming

D. Fertility of soil due to microbes and other organism present in soil

E. Genetic engineering for microbial mass production

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

[Question ID = 5274][Question Description = 124\_115\_FSN\_SEP22\_Q24]

1. A, B and D only [Option ID = 21093]
2. C, D and E only [Option ID = 21094]
3. B, C and D only [Option ID = 21095]
4. A, C and E only [Option ID = 21096]

25) Which of the following are potential hurdles for use in preservation of foods?

A. Rehydration

B. Competitive Microorganisms

C. Acidity (pH)

D. Fermentation

E. Temperature

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

[Question ID = 5275][Question Description = 125\_115\_FSN\_SEP22\_Q25]

1. A, B and D only [Option ID = 21097]
2. A, C and E only [Option ID = 21098]
3. C, D and E only [Option ID = 21099]
4. B, C and E only [Option ID = 21100]

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

Assertion A : Pulses contain substantial amount of oligosaccharides which produces flatulence

Reason R : Oligosaccharides are digested by the microflora of the lower gastrointestinal tract resulting in production of large amount of carbon dioxide, hydrogen



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

[Question ID = 5276][Question Description = 126\_115\_FSN\_SEP22\_Q26]

1. Both A and R are true and R is the correct explanation of A [Option ID = 21101]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 21102]
3. A is true but R is false [Option ID = 21103]
4. A is false but R is true [Option ID = 21104]

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

Assertion A : Hyperglycemia can lead to ketoacidosis leading to diabetic coma

Reason R : High carbohydrate diet results in breakdown of fat leading to ketones and diabetes related ketoacidosis.

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

[Question ID = 5277][Question Description = 127\_115\_FSN\_SEP22\_Q27]

1. Both A and R are true and R is the correct explanation of A [Option ID = 21105]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 21106]
3. A is true but R is false [Option ID = 21107]
4. A is false but R is true [Option ID = 21108]

28) Given below are two statements

Statement I: FSSAI recommends that all food items should contain less than 2 percent trans fat.

Statement II: Bakery products made in hydrogenated fats are well within the FSSAI recommendations for trans fats.

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

[Question ID = 5278][Question Description = 128\_115\_FSN\_SEP22\_Q28]

1. Both Statement I and Statement II are correct [Option ID = 21109]
2. Both Statement I and Statement II are incorrect [Option ID = 21110]
3. Statement I is correct but Statement II is incorrect [Option ID = 21111]
4. Statement I is incorrect but Statement II is correct [Option ID = 21112]

29) Given below are two statements

Statement I: There is no evidence for additional demand for energy during lactation

Statement II: Fat accretion during pregnancy is a source of energy during lactation

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

[Question ID = 5279][Question Description = 129\_115\_FSN\_SEP22\_Q29]

1. Both Statement I and Statement II are correct [Option ID = 21113]
2. Both Statement I and Statement II are incorrect [Option ID = 21114]
3. Statement I is correct but Statement II is incorrect [Option ID = 21115]
4. Statement I is incorrect but Statement II is correct [Option ID = 21116]

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

Assertion A : Evidence suggest close association between higher levels of maternal fish consumption during pregnancy and beneficial effect on fetal and infant development.

Reason R : Fish has high fat, saturated fatty acids and cholesterol which help in normal retinal and brain development of foetus.

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

[Question ID = 5280][Question Description = 130\_115\_FSN\_SEP22\_Q30]

1. Both A and R are true and R is the correct explanation of A [Option ID = 21117]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 21118]
3. A is true but R is false [Option ID = 21119]
4. A is false but R is true [Option ID = 21120]

31) Given below are two statements

Statement I: High glycemic index foods must be included in the diet of a diabetic patient.

Statement II: Lower glycemic index foods pose a risk of sudden spurt in blood glucose level.

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

[Question ID = 5281][Question Description = 131\_115\_FSN\_SEP22\_Q31]

1. Both Statement I and Statement II are correct [Option ID = 21121]
2. Both Statement I and Statement II are incorrect [Option ID = 21122]
3. Statement I is correct but Statement II is incorrect [Option ID = 21123]
4. Statement I is incorrect but Statement II is correct [Option ID = 21124]

**32) Given below are two statements**

**Statement I:** Peritoneal dialysis is the most common type of dialysis performed on patients.

**Statement II:** Proteins from plant sources (such as pulses, nuts, beans, peas) are recommended to meet the protein needs during dialysis.

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

[Question ID = 5282][Question Description = 132\_115\_FSN\_SEP22\_Q32]

1. Both Statement I and Statement II are correct [Option ID = 21125]
2. Both Statement I and Statement II are incorrect [Option ID = 21126]
3. Statement I is correct but Statement II is incorrect [Option ID = 21127]
4. Statement I is incorrect but Statement II is correct [Option ID = 21128]

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

**Assertion A :** In fish, there is a high risk of quality loss due to oxidation

**Reason R :** Fish contain high levels of polyunsaturated fatty acids (PUFA), hence the oxidative rancidity is more pronounced in fish.

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

[Question ID = 5283][Question Description = 133\_115\_FSN\_SEP22\_Q33]

1. Both A and R are true and R is the correct explanation of A [Option ID = 21129]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 21130]
3. A is true but R is false [Option ID = 21131]
4. A is false but R is true [Option ID = 21132]

**34) Given below are two statements**

**Statement I:** In growth monitoring weight of a child is plotted against his/her height accurately on a growth chart.

**Statement II:** The growth is considered normal if the curve is flat or upward moving on the growth chart.

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

[Question ID = 5284][Question Description = 134\_115\_FSN\_SEP22\_Q34]

1. Both Statement I and Statement II are correct [Option ID = 21133]
2. Both Statement I and Statement II are incorrect [Option ID = 21134]
3. Statement I is correct but Statement II is incorrect [Option ID = 21135]
4. Statement I is incorrect but Statement II is correct [Option ID = 21136]

**35) Given below are two statements**

**Statement I:** The antimicrobial activity of sodium benzoate as preservative is greater at the lower pH values.

**Statement II:** Its optimum pH range is between 4.0 to 6.0.

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

[Question ID = 5285][Question Description = 135\_115\_FSN\_SEP22\_Q35]

1. Both Statement I and Statement II are correct [Option ID = 21137]
2. Both Statement I and Statement II are incorrect [Option ID = 21138]
3. Statement I is correct but Statement II is incorrect [Option ID = 21139]
4. Statement I is incorrect but Statement II is correct [Option ID = 21140]

**36) Match List I with List II**

List I	List II
Age Category	Protein Requirement g/day
A. 13-15 year old girl	I. 37
B. 7-9 year old girl	II. 35
C. 1-3 year old girl	III. 19
D. 25 year old sedentary women	IV. 10
E. 16-18 year old girl	V. 36

Choose the correct answer from the options given below:

[Question ID = 5286][Question Description = 136\_115\_FSN\_SEP22\_Q36]

1. A - II, B - III, C - IV, D - V, E - I [Option ID = 21141]
2. A - III, B - IV, C - V, D - I, E - II [Option ID = 21142]
3. A - IV, B - V, C - I, D - II, E - III [Option ID = 21143]
4. A - V, B - I, C - II, D - III, E - IV [Option ID = 21144]

37) Match List I with List II

List I	List II
Role of Egg	Food Preparation
A. Binding Agent	I. Cakes, souffle, meringue
B. Clarifying Agent	II. Pastries
C. Leavening Agent	III. Broths, coffee
D. Glazing Agent	IV. Ice-creams
	V. French toast, banana fritters

Choose the correct answer from the options given below:

[Question ID = 5287][Question Description = 137\_115\_FSN\_SEP22\_Q37]

1. A - III, B - II, C - IV, D - I [Option ID = 21145]
2. A - V, B - III, C - I, D - II [Option ID = 21146]
3. A - II, B - IV, C - III, D - V [Option ID = 21147]
4. A - IV, B - I, C - II, D - III [Option ID = 21148]

38) Match List I with List II

List I	List II
Nutrient	Biochemical Assessment
A. Thiamine	I. Prothrombin time
B. Riboflavin	II. Serum Albumin
C. Iron	III. Erythrocyte Transketolase Activity
D. Vitamin K	IV. Erythrocyte Glutathione Reductase test
	V. Serum Transferrin Saturation

Choose the correct answer from the options given below:

[Question ID = 5288][Question Description = 138\_115\_FSN\_SEP22\_Q38]

1. A - III, B - IV, C - V, D - I [Option ID = 21149]
2. A - IV, B - I, C - II, D - III [Option ID = 21150]
3. A - V, B - III, C - IV, D - II [Option ID = 21151]
4. A - II, B - V, C - I, D - IV [Option ID = 21152]

39) Match List I with List II

List I	List II
Microorganisms	Optimum Temperature
A. Psychrophiles	I. 50 °C to a maximum of 80 °C
B. Mesophiles	II. Grow at 0 °C and below, optimum growth temperature close to 15 °C, and usually do not survive at temperatures above 20 °C
C. Thermophiles	III. 25 °C to refrigeration temperature about 4 °C
D. Psychrotrophs	IV. About 20 °C to about 45 °C
	V. About 80-120 °C

Choose the correct answer from the options given below:

[Question ID = 5289][Question Description = 139\_115\_FSN\_SEP22\_Q39]

1. A - V, B - I, C - IV, D - II [Option ID = 21153]
2. A - IV, B - V, C - II, D - I [Option ID = 21154]
3. A - III, B - V, C - II, D - V [Option ID = 21155]
4. A - II, B - IV, C - I, D - III [Option ID = 21156]

40) Match List I with List II

List I	List II
Lipoproteins	Composition
A. Chylomicron	I. 60% triglycerides and 10% cholesterol

B. Low Density Lipoprotein	II. 3% triglycerides and 20% cholesterol
C. High Density Lipoprotein	III. 90% triglycerides and 5% cholesterol
D. Very Low Density Lipoprotein	IV. 40% triglycerides and 10% cholesterol
	V. 10% triglycerides and 45% cholesterol

Choose the correct answer from the options given below:

[Question ID = 5290][Question Description = 140\_115\_FSN\_SEP22\_Q40]

1. A - III, B - IV, C - I, D - II [Option ID = 21157]
2. A - II, B - III, C - IV, D - V [Option ID = 21158]
3. A - III, B - V, C - II, D - I [Option ID = 21159]
4. A - V, B - II, C - I, D - III [Option ID = 21160]

41) Match List I with List II

List I	List II
Off Flavours	Compounds Responsible
A. Acrid	I. 1,4-Dichlorobenzene
B. Fruity	II. Styrene
C. Woody	III. Acetyldehyde
D. Plastic	IV. Guaiacol
	V. Acrolein

Choose the correct answer from the options given below:

[Question ID = 5291][Question Description = 141\_115\_FSN\_SEP22\_Q41]

1. A - III, B - I, C - II, D - V [Option ID = 21161]
2. A - II, B - IV, C - V, D - I [Option ID = 21162]
3. A - IV, B - I, C - V, D - III [Option ID = 21163]
4. A - V, B - III, C - I, D - II [Option ID = 21164]

42) Match List I with List II

List I	List II
Food-borne Disease Category	Diseases
A. Food Infection	I. Salmonellosis, Listeriosis, Shigellosis
B. Food-borne Viral Infection	II. Botulism, Staphylococcus infection
C. Food Intoxications	III. Fumonism, Ergot alkaloids
D. Food-borne Parasitic Infestations	IV. Gastroenteritis
	V. Anisakiasis, Trichinosis

Choose the correct answer from the options given below:

[Question ID = 5292][Question Description = 142\_115\_FSN\_SEP22\_Q42]

1. A - III, B - V, C - IV, D - I [Option ID = 21165]
2. A - I, B - IV, C - II, D - V [Option ID = 21166]
3. A - V, B - III, C - I, D - IV [Option ID = 21167]
4. A - IV, B - V, C - III, D - II [Option ID = 21168]

43) Match List I with List II

List I	List II
Methods of Drying	Example Food Products
A. Osmosis	I. Egg, Whole milk, cream powder
B. Mechanical drier	II. Fruits, fish
C. Spray drying	III. Meat, poultry
D. Foam mat drying	IV. Dry mango powder, mango fruit bar
	V. Orange, tomato juice

Choose the correct answer from the options given below:

[Question ID = 5293][Question Description = 143\_115\_FSN\_SEP22\_Q43]

1. A - IV, B - V, C - II, D - III [Option ID = 21169]
2. A - III, B - I, C - V, D - II [Option ID = 21170]
3. A - II, B - IV, C - I, D - V [Option ID = 21171]
4. A - V, B - III, C - II, D - I [Option ID = 21172]

44) Match List I with List II

List I	List II
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Age Category	Energy Requirement (Kcal/kg/day)
A. Infant (6-12m)	I. 39
B. Children (7-9y)	II. 45
C. Children (1-3y)	III. 83
D. Girl (16-18y)	IV. 80
E. Women (moderate work)	V. 67

Choose the correct answer from the options given below:

[Question ID = 5294][Question Description = 144\_115\_FSN\_SEP22\_Q44]

1. A - III, B - I, C - IV, D - V, E - II [Option ID = 21173]
2. A - V, B - III, C - II, D - I, E - IV [Option ID = 21174]
3. A - II, B - IV, C - V, D - I, E - III [Option ID = 21175]
4. A - IV, B - V, C - III, D - II, E - I [Option ID = 21176]

45) Match List I with List II

List I	List II
Catering Unit	Type of Food Service
A. Industrial canteen	I. Plate service
B. Promotion event	II. Vending machine
C. Boarding school	III. Cafeteria service
D. Hospital	IV. Counter service
E. Fast food outlet	V. Buffet
	VI. Centralized

Choose the correct answer from the options given below:

[Question ID = 5295][Question Description = 145\_115\_FSN\_SEP22\_Q45]

1. A - VI, B - IV, C - II, D - V, E - III [Option ID = 21177]
2. A - IV, B - III, C - I, D - V, E - II [Option ID = 21178]
3. A - III, B - V, C - I, D - VI, E - IV [Option ID = 21179]
4. A - II, B - IV, C - III, D - V, E - I [Option ID = 21180]

46) Arrange the following programmes of nutrition monitoring in India according to chronological order of their inception

- A. National Nutrition Monitoring Bureau (NNMB)
- B. National Sample Survey Organization (NSSO)
- C. National Family Health Survey (NFHS)
- D. District Level Household Survey (DLHS)
- E. Annual Health Survey (AHS)

Choose the *correct* answer from the options given below

[Question ID = 5296][Question Description = 146\_115\_FSN\_SEP22\_Q46]

1. A, C, E, B, D [Option ID = 21181]
2. B, A, C, D, E [Option ID = 21182]
3. C, D, E, B, A [Option ID = 21183]
4. E, A, D, C, B [Option ID = 21184]

47) In a diet you are required to furnish 0.1 g n-3 PUFA. A list of foods is given. Arrange them in terms of amount (lowest to highest) you will consider to furnish 0.1g n-3 PUFA.

- A. Cod liver oil
- B. Walnut
- C. Rajmah
- D. Chicken
- E. Wheat germ

Choose the *correct* answer from the options given below

[Question ID = 5297][Question Description = 147\_115\_FSN\_SEP22\_Q47]

1. A, E, B, C, D [Option ID = 21185]
2. B, D, E, A, C [Option ID = 21186]
3. C, A, B, D, E [Option ID = 21187]

4. E, C, A, D, B [Option ID = 21188]

48) Given is a list of foods. Arrange these foods based on their dietary fibre content (g/100g) from high to low

A. Fenugreek seeds

B. Bajra

C. Drumstick

D. Rice raw milled

E. Bengal gram (whole)

Choose the *correct* answer from the options given below

[Question ID = 5298][Question Description = 148\_115\_FSN\_SEP22\_Q48]

1. D, B, C, A, E [Option ID = 21189]

2. B, D, A, E, C [Option ID = 21190]

3. C, E, A, D, B [Option ID = 21191]

4. A, E, B, C, D [Option ID = 21192]

49) Arrange the following from lowest to highest average ascorbic acid content (raw) per 100g of the food.

A. Maize tender sweet

B. Drumstick leaves

C. Mango geen (raw)

D. Guava

E. Whole milk (cow)

Choose the *correct* answer from the options given below

[Question ID = 5299][Question Description = 149\_115\_FSN\_SEP22\_Q49]

1. A, E, C, D, B [Option ID = 21193]

2. B, A, D, C, E [Option ID = 21194]

3. E, A, C, B, D [Option ID = 21195]

4. D, A, E, B, C [Option ID = 21196]

50) Progression of major stages in the development of coronary artery disease (CAD) is given herewith. Arrange them in right sequential order

A. Fibrous plaques

B. Thrombosis and occlusion of artery

C. Proliferation of the smooth muscle cell

D. Fatty streaks

E. Gelatinous lesions

Choose the *correct* answer from the options given below

[Question ID = 5300][Question Description = 150\_115\_FSN\_SEP22\_Q50]

1. B, C, A, D, E [Option ID = 21197]

2. E, A, C, D, B [Option ID = 21198]

3. C, D, E, A, B [Option ID = 21199]

4. D, C, A, B, E [Option ID = 21200]