

13 Fruit Science ICAR SEPT 2022

Topic:- GEN KNOW COMMON PHD

1) Colour of the tag used on certified seed bags is[Question ID = 16958][Question Description = 101_221_GKD_SEP22_Q01]

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

2) Following are the statements regarding the Usar soil -

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

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

[Question ID = 16959][Question Description = 102_221_GKD_SEP22_Q02]

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

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

[Question ID = 16960][Question Description = 103_221_GKD_SEP22_Q03]

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

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

[Question ID = 16961][Question Description = 104_221_GKD_SEP22_Q04]

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

5) Mid-Oceanic Ridges are one of the important divisions of the ocean floor. In this respect, point out the incorrect statement regarding the 'Mid-Oceanic Ridges'. [Question ID = 16962][Question Description = 105_221_GKD_SEP22_Q05]

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

6) Consider the following facts about the union territory of India and point out the one which is incorrect in relation to union territory.[Question ID = 16963][Question Description = 106_221_GKD_SEP22_Q06]

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

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

7) Variety of flora and fauna are found in the different types of forest in India. In this regard, species of trees like teak, *sal shisham*, *sandalwood*, etc. are found in which of the following type of forests in India?[Question ID = 16964][Question Description = 107_221_GKD_SEP22_Q07]

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

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

[Question ID = 16965][Question Description = 108_221_GKD_SEP22_Q08]

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

9) Point out the incorrect statements regarding the service sector in India.[Question ID = 16966][Question Description = 109_221_GKD_SEP22_Q09]

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

10) Consider the statements regarding the agriculture sector in India and point out the incorrect statement.[Question ID = 16967][Question Description = 110_221_GKD_SEP22_Q10]

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

11) In case of related goods, the cross elasticity of demand is[Question ID = 16968][Question Description = 111_221_GKD_SEP22_Q11]

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

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

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

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

[Question ID = 16969][Question Description = 112_221_GKD_SEP22_Q12]

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

[Option ID = 37876]

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

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

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

[Question ID = 16970][Question Description = 113_221_GKD_SEP22_Q13]

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

14) Consumers are likely to get a variety of goods in which kind of market competition[Question ID = 16971][Question Description = 114_221_GKD_SEP22_Q14]

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

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

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

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

[Question ID = 16972][Question Description = 115_221_GKD_SEP22_Q15]

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

16) The scientific study of soil is[Question ID = 16973][Question Description = 116_221_GKD_SEP22_Q16]

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

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

[Question ID = 16974][Question Description = 117_221_GKD_SEP22_Q17]

- 1. Tetraploid
[Option ID = 37893]
- 2. Hexaploid
[Option ID = 37894]
- 3. Haploid
[Option ID = 37895]
- 4. Diploid
[Option ID = 37896]

18) Sectoral inflation refers to[Question ID = 16975][Question Description = 118_221_GKD_SEP22_Q18]

- 1. Running inflation [Option ID = 37897]

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

19) Keynes Liquidity trap refers to[Question ID = 16976][Question Description = 119_221_GKD_SEP22_Q19]

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

20) A business is solvent if[Question ID = 16977][Question Description = 120_221_GKD_SEP22_Q20]

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

Topic:- Horticulture_PHD

1) Which of the following is a potassium loving crop and also consider as high K and S foraging crop?[Question ID = 3101][Question Description = 101_160_HOR_SEP22_Q01]

1. Cauliflower [Option ID = 12401]
2. Cucumber [Option ID = 12402]
3. Potato [Option ID = 12403]
4. Okra [Option ID = 12404]

2) Which among the following vegetable has extremely high respiration rate?

[Question ID = 3102][Question Description = 102_160_HOR_SEP22_Q02]

1. Carrot [Option ID = 12405]
2. Asparagus [Option ID = 12406]
3. French bean [Option ID = 12407]
4. Cabbage [Option ID = 12408]

3) Based on plant spread and fruit shape which of the botanical variety of brinjal (*Solanum melongena*) is reported to have round and egg-shaped fruits?

[Question ID = 3103][Question Description = 103_160_HOR_SEP22_Q03]

1. *Solanum melongena* var. *esculenta*
[Option ID = 12409]
2. *Solanum melongena* var. *serpentinum*
[Option ID = 12410]
3. *Solanum melongena* var. *depressum*
[Option ID = 12411]
4. *Solanum melongena* var. *incanum*
[Option ID = 12412]

4) Which of the following tomato hybrid carries multiple disease resistance with respect to leaf curl virus, bacterial wilt and early blight?[Question ID = 3104][Question Description = 104_160_HOR_SEP22_Q04]

1. Arka Abha [Option ID = 12413]
2. Arka Ananya [Option ID = 12414]
3. Arka Samrat [Option ID = 12415]
4. Kashi Vishesh [Option ID = 12416]

5) Nutritional value of which group of vegetable in general is reduced due to the presence of trypsin inhibitors?

[Question ID = 3105][Question Description = 105_160_HOR_SEP22_Q05]

1. Cucurbits [Option ID = 12417]
2. Solanaceous [Option ID = 12418]
3. Leafy [Option ID = 12419]
4. Legume [Option ID = 12420]

6) Which of the following is drought tolerant potato variety?[Question ID = 3106][Question Description = 106_160_HOR_SEP22_Q06]

1. Kufri Mohan [Option ID = 12421]
2. Kufri Thar-2 [Option ID = 12422]

3. Kufri Karan [Option ID = 12423]
4. Kufri Kheda-1 [Option ID = 12424]

7) High value functional foods obtained from certain crop species and harvested at first true leaves stage (7-21 days old seedlings) are called as[Question ID = 3107][Question Description = 107_160_HOR_SEP22_Q07]

1. Macrogreens [Option ID = 12425]
2. Microgreens [Option ID = 12426]
3. Pre-cut greens [Option ID = 12427]
4. Herbal greens [Option ID = 12428]

8) What is the scientific name of Curry leaf?[Question ID = 3108][Question Description = 108_160_HOR_SEP22_Q08]

1. *Murraya koengii* [Option ID = 12429]
2. *Moringa oleifera* [Option ID = 12430]
3. *Celosia argentea* [Option ID = 12431]
4. *Pastinaca sativa* [Option ID = 12432]

9) According to APEDA, What is the India's share (approximately in percent) of export of fruits & vegetables in the global market ?

[Question ID = 3109][Question Description = 109_160_HOR_SEP22_Q09]

1. 5
[Option ID = 12433]
2. 3
[Option ID = 12434]
3. 1
[Option ID = 12435]
4. 7
[Option ID = 12436]

10) What is the seed rate (kg/ha) of Pole type Dolichos bean ?[Question ID = 3110][Question Description = 110_160_HOR_SEP22_Q10]

1. 45-50 [Option ID = 12437]
2. 35-40 [Option ID = 12438]
3. 10-15 [Option ID = 12439]
4. 20-30 [Option ID = 12440]

11) Which is the best index tissue for nutrient analysis in papaya?

[Question ID = 3111][Question Description = 111_160_HOR_SEP22_Q11]

1. Leaf [Option ID = 12441]
2. Petiole [Option ID = 12442]
3. Stem [Option ID = 12443]
4. Root [Option ID = 12444]

12) Which of the following pair of fruits has the tendency of climacteric fruit ripening?

[Question ID = 3112][Question Description = 112_160_HOR_SEP22_Q12]

1. Litchi and Grape [Option ID = 12445]
2. Pineapple and Citrus [Option ID = 12446]
3. Avocado and Apricot [Option ID = 12447]
4. Pomegranate and Cherry [Option ID = 12448]

13) Which of the following species played a seminal role in the origin of cultivated apples?[Question ID = 3113][Question Description = 113_160_HOR_SEP22_Q13]

1. *Malus sieversii* [Option ID = 12449]
2. *Malus sylvestris* [Option ID = 12450]
3. *Malus baccata* [Option ID = 12451]
4. *Malus prunifolia* [Option ID = 12452]

14) The term " chicken-tongue" is associated with[Question ID = 3114][Question Description = 114_160_HOR_SEP22_Q14]

1. Grape [Option ID = 12453]
2. *Garcinia* [Option ID = 12454]
3. Papaya [Option ID = 12455]
4. Litchi [Option ID = 12456]

15) What is the family of jackfruit (*Artocarpus heterophyllus* Lamrk)?

[Question ID = 3115][Question Description = 115_160_HOR_SEP22_Q15]

1. Myrtaceae [Option ID = 12457]
2. Moraceae [Option ID = 12458]
3. Bombaceae [Option ID = 12459]
4. Bromeliaceae [Option ID = 12460]

16) What are the permissible limits of somaclonal variation in tissue cultured plants?

[Question ID = 3116][Question Description = 116_160_HOR_SEP22_Q16]

1. 3 to 5 % [Option ID = 12461]
2. 5 to 8% [Option ID = 12462]
3. 8 to 12% [Option ID = 12463]
4. 12 to 15 % [Option ID = 12464]

17) What is the estimated genome size of the mango?[Question ID = 3117][Question Description = 117_160_HOR_SEP22_Q17]

1. ~275 MB [Option ID = 12465]
2. ~375 MB [Option ID = 12466]
3. ~439 MB [Option ID = 12467]
4. ~539 MB [Option ID = 12468]

18) The most commercial grape rootstock "Dog Ridge" is selected from[Question ID = 3118][Question Description = 118_160_HOR_SEP22_Q18]

1. *Vitis vinifera* [Option ID = 12469]
2. *Vitis parviflora* [Option ID = 12470]
3. *Vitis labrusca* [Option ID = 12471]
4. *Vitis champini* [Option ID = 12472]

19) The quality and grade of papain are measured by[Question ID = 3119][Question Description = 119_160_HOR_SEP22_Q19]

1. Refractor unit [Option ID = 12473]
2. Tyrosine unit [Option ID = 12474]
3. Spectro unit [Option ID = 12475]
4. Defacto unit [Option ID = 12476]

20) What is the genomic group of Grande Naine banana?[Question ID = 3120][Question Description = 120_160_HOR_SEP22_Q20]

1. AA [Option ID = 12477]
2. AB [Option ID = 12478]
3. AAA [Option ID = 12479]
4. AAB [Option ID = 12480]

21) What is the ideal temperature for cold storage of mature mangoes?

[Question ID = 3121][Question Description = 121_160_HOR_SEP22_Q21]

1. 5-6 °C
[Option ID = 12481]
2. 9-10 °C
[Option ID = 12482]
3. 12-13 °C
[Option ID = 12483]
4. 15-16 °C
[Option ID = 12484]

22) Which part of the oil palm fruit is used for palm oil extraction?[Question ID = 3122][Question Description = 122_160_HOR_SEP22_Q22]

1. Seed [Option ID = 12485]
2. Epicarp [Option ID = 12486]
3. Mesocarp [Option ID = 12487]
4. Endocarp [Option ID = 12488]

23) What is the desired dry matter content in potato tubers meant for chips making ?[Question ID = 3123][Question Description = 123_160_HOR_SEP22_Q23]

1. 18 per cent [Option ID = 12489]
2. 20 per cent [Option ID = 12490]
3. 15 per cent [Option ID = 12491]
4. 10 per cent [Option ID = 12492]

24) Which part of Safed Musli (*Chlorophytum borivillianum*) has higher commercial value and used for postharvest processing ?

[Question ID = 3124][Question Description = 124_160_HOR_SEP22_Q24]

1. Seeds [Option ID = 12493]
2. Leaves [Option ID = 12494]
3. Stem [Option ID = 12495]
4. Roots [Option ID = 12496]

25) Which fruit/vegetable crop has problem of soft nose and jelly seed disorder ?[Question ID = 3125][Question Description = 125_160_HOR_SEP22_Q25]

1. Mango [Option ID = 12497]
2. Tomato [Option ID = 12498]
3. Sapota [Option ID = 12499]
4. Pointed gourd [Option ID = 12500]

26) Which of the following is NOT used as desiccant for drying of ornamentals?

[Question ID = 3126][Question Description = 126_160_HOR_SEP22_Q26]

1. Silica gel [Option ID = 12501]
2. Boric acid [Option ID = 12502]
3. Potassium permanganate [Option ID = 12503]
4. Alum powder [Option ID = 12504]

27) Which among the following causes superficial scald in apple?

[Question ID = 3127][Question Description = 127_160_HOR_SEP22_Q27]

1. Pre-harvest calcium deficiency [Option ID = 12505]
2. Low temperature storage [Option ID = 12506]
3. Low oxygen level in storage [Option ID = 12507]
4. Infection by *Botrytis cinerea* [Option ID = 12508]

28) Which of the following is used as ethylene absorber in the packaging system?

[Question ID = 3128][Question Description = 128_160_HOR_SEP22_Q28]

1. Ferrous oxide [Option ID = 12509]
2. Hydrated lime [Option ID = 12510]
3. Silica gel [Option ID = 12511]
4. Potassium permanganate [Option ID = 12512]

29) Which among the following is a postharvest quarantine treatment of fresh horticultural produce?

[Question ID = 3129][Question Description = 129_160_HOR_SEP22_Q29]

1. Hot water treatment [Option ID = 12513]
2. De-greening treatment [Option ID = 12514]
3. Curing [Option ID = 12515]
4. Tinting [Option ID = 12516]

30) 'Kanji' is a beverage prepared from black carrot by[Question ID = 3130][Question Description = 130_160_HOR_SEP22_Q30]

1. Alcoholic fermentation [Option ID = 12517]
2. Acetic acid fermentation [Option ID = 12518]
3. Lactic acid fermentation [Option ID = 12519]
4. Enzymatic juice extraction [Option ID = 12520]

31) Which of the following foliage plant is used to make edge in the garden?

[Question ID = 3131][Question Description = 131_160_HOR_SEP22_Q31]

1. *Mathiola incana* [Option ID = 12521]
2. *Alyssum maritimum* [Option ID = 12522]
3. *Alternanthera amabilis* [Option ID = 12523]

4. *Zephyranthes rosea* [Option ID = 12524]

32) Which of the following is the first cultivar of rose developed by Dr. B. P. Pal for loose flower purpose?

[Question ID = 3132][Question Description = 132_160_HOR_SEP22_Q32]

1. Delhi White Pearl [Option ID = 12525]
2. Rose Sherbet [Option ID = 12526]
3. Pusa Alpana [Option ID = 12527]
4. Madhura [Option ID = 12528]

33) Who has given the concept of wild gardening?

[Question ID = 3133][Question Description = 133_160_HOR_SEP22_Q33]

1. Edwin Lutyens [Option ID = 12529]
2. G S Randhawa [Option ID = 12530]
3. Le Notre [Option ID = 12531]
4. William Robinson [Option ID = 12532]

34) Process of removing field heat from cut flowers in which temperature is brought down from 25-30° C to 1-2 ° C in less than an hour either through hydro-cooling or mechanical refrigeration is known as

[Question ID = 3134][Question Description = 134_160_HOR_SEP22_Q34]

1. Staking [Option ID = 12533]
2. Pre-cooling [Option ID = 12534]
3. Pulsing [Option ID = 12535]
4. Hardening [Option ID = 12536]

35) What is the chromosome number of Mohini, an aneuploid variety of rose?

[Question ID = 3135][Question Description = 135_160_HOR_SEP22_Q35]

1. $2n = 23$ [Option ID = 12537]
2. $2n = 21$ [Option ID = 12538]
3. $2n = 22$ [Option ID = 12539]
4. $2n = 24$ [Option ID = 12540]

36) Which of the following is a major loose flower crop grown in India?[Question ID = 3136][Question Description = 136_160_HOR_SEP22_Q36]

1. Gaillardia [Option ID = 12541]
2. Marigold [Option ID = 12542]
3. Ixora [Option ID = 12543]
4. Gomphrena [Option ID = 12544]

37) Which of the following is a warm season turf grass?[Question ID = 3137][Question Description = 137_160_HOR_SEP22_Q37]

1. *Agrostis palustris* [Option ID = 12545]
2. *Lolium multiflorum* [Option ID = 12546]
3. *Poa pratensis* [Option ID = 12547]
4. *Stenotaphrum secundatum* [Option ID = 12548]

38) Who has designed 'Mughal Garden' which is located at Pinjore, Haryana ?

[Question ID = 3138][Question Description = 138_160_HOR_SEP22_Q38]

1. Sher Shah Suri [Option ID = 12549]
2. Ibrahim Lodhi [Option ID = 12550]
3. Fidai Khan [Option ID = 12551]
4. Hyder Ali [Option ID = 12552]

39) 'Noorjahan' is an essential oil bearing variety of which flower crop?[Question ID = 3139][Question Description = 139_160_HOR_SEP22_Q39]

1. Tuberose [Option ID = 12553]
2. Rose [Option ID = 12554]
3. Carnation [Option ID = 12555]
4. Dahlia [Option ID = 12556]

40) Which of the following international organization is associated with protection of asexually reproduced ornamental plant varieties?

[Question ID = 3140][Question Description = 140_160_HOR_SEP22_Q40]

1. IAEA, Vienna [Option ID = 12557]
2. PPV&FRA, New Delhi [Option ID = 12558]
3. ISHS, Belgium [Option ID = 12559]
4. CIOPORA, Geneva [Option ID = 12560]

41) Which of the following is a hybrid variety of black pepper?

[Question ID = 3141][Question Description = 141_160_HOR_SEP22_Q41]

1. Panniyur-1 [Option ID = 12561]
2. Panniyur-2 [Option ID = 12562]
3. Panniyur-5 [Option ID = 12563]
4. Sreekara [Option ID = 12564]

42) Allspice is known for containing the flavour of which of the following combination?

[Question ID = 3142][Question Description = 142_160_HOR_SEP22_Q42]

1. Cinnamon, clove and bay leaf. [Option ID = 12565]
2. Cinnamon, clove and curry leaf. [Option ID = 12566]
3. Cinnamon, clove and nutmeg. [Option ID = 12567]
4. Cinnamon, clove and coriander. [Option ID = 12568]

43) Which of the following is NOT related to large cardamom?

[Question ID = 3143][Question Description = 143_160_HOR_SEP22_Q43]

1. Chirke and Foorkey [Option ID = 12569]
2. Ramsey and Golsey [Option ID = 12570]
3. Seeds and Suckers [Option ID = 12571]
4. Seeds and rhizome [Option ID = 12572]

44) Which of the following is a shrub?[Question ID = 3144][Question Description = 144_160_HOR_SEP22_Q44]

1. Rosemary [Option ID = 12573]
2. Fennel [Option ID = 12574]
3. Fenugreek [Option ID = 12575]
4. Parsley [Option ID = 12576]

45) Which is the useful part of cinnamon?[Question ID = 3145][Question Description = 145_160_HOR_SEP22_Q45]

1. Leaves [Option ID = 12577]
2. Flower [Option ID = 12578]
3. Root [Option ID = 12579]
4. Bark [Option ID = 12580]

46) Isabgol crop generally sown during which month?

[Question ID = 3146][Question Description = 146_160_HOR_SEP22_Q46]

1. July to mid- August [Option ID = 12581]
2. November to mid- December [Option ID = 12582]
3. January to mid- February [Option ID = 12583]
4. April to mid- May [Option ID = 12584]

47) 'Coppicing' is related to which of the following crop?

[Question ID = 3147][Question Description = 147_160_HOR_SEP22_Q47]

1. Dioscorea [Option ID = 12585]
2. Cinchona [Option ID = 12586]
3. Shatavari [Option ID = 12587]
4. Belladonna [Option ID = 12588]

48) Heroin drug is prepared from which medicinal plant?[Question ID = 3148][Question Description = 148_160_HOR_SEP22_Q48]

1. Datura [Option ID = 12589]
2. Safed musli [Option ID = 12590]
3. Cannabis (marijuana) [Option ID = 12591]
4. Opium poppy [Option ID = 12592]

49) Central Drug Research Institute is located at[Question ID = 3149][Question Description = 149_160_HOR_SEP22_Q49]

1. New Delhi [Option ID = 12593]

2. Bengaluru [Option ID = 12594]
3. Palampur [Option ID = 12595]
4. Lucknow [Option ID = 12596]

50) Which is the economic part of long pepper?[Question ID = 3150][Question Description = 150_160_HOR_SEP22_Q50]

1. Leaves [Option ID = 12597]
2. Seed [Option ID = 12598]
3. Spike [Option ID = 12599]
4. Berry [Option ID = 12600]

Topic:- 13 Fruit Science_PHD

1) A Geographical Indication of “Myndoli Banana” belongs to which of the following state?

[Question ID = 3201][Question Description = 101_161_FSP_SEP22_Q01]

1. Gujarat [Option ID = 12801]
2. Maharashtra [Option ID = 12802]
3. Goa [Option ID = 12803]
4. Manipur [Option ID = 12804]

2) The piping leaf phenotype is related to which of the fruit crop?

[Question ID = 3202][Question Description = 102_161_FSP_SEP22_Q02]

1. Papaya [Option ID = 12805]
2. Pineapple [Option ID = 12806]
3. Grape [Option ID = 12807]
4. Guava [Option ID = 12808]

3) Who has coined the term Protogynous Diurnally Synchronous Dichogamy (PDSD) in Avocado?[Question ID = 3203]

[Question Description = 103_161_FSP_SEP22_Q03]

1. Nirdoy (1923) [Option ID = 12809]
2. Williams (1966) [Option ID = 12810]
3. Bergh (1969) [Option ID = 12811]
4. Chandler (1985) [Option ID = 12812]

4) The growth of bael (*Aegle marmelos*) fruit follows sigmoid curve.

[Question ID = 3204][Question Description = 104_161_FSP_SEP22_Q04]

1. Single [Option ID = 12813]
2. Double [Option ID = 12814]
3. Triple [Option ID = 12815]
4. Tetra [Option ID = 12816]

5) Statement I: The spring crop of fig (*profichi*) is produced on wood from the previous season.

Statement II: The summer crop (*mammoni*) is produced in the axils of leaves on branches of the current season.

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

[Question ID = 3205][Question Description = 105_161_FSP_SEP22_Q05]

1. Both Statement I and Statement II are true [Option ID = 12817]
2. Both Statement I and Statement II are false [Option ID = 12818]
3. Statement I is true but Statement II is false [Option ID = 12819]
4. Statement I is false but Statement II is true [Option ID = 12820]

6) Given below are two statements

Statement I: The global kiwifruit industry was developed on 'Hayward' cultivar.

Statement II: It was largely because of the good storage potential of Hayward cultivar.

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

[Question ID = 3206][Question Description = 106_161_FSP_SEP22_Q06]

1. Both Statement I and Statement II are true [Option ID = 12821]
2. Both Statement I and Statement II are false [Option ID = 12822]
3. Statement I is true but Statement II is false [Option ID = 12823]
4. Statement I is false but Statement II is true [Option ID = 12824]

7) What is the causal agent of papaya bunchy top?[Question ID = 3207][Question Description = 107_161_FSP_SEP22_Q07]

1. Bacteria [Option ID = 12825]
2. Fungus [Option ID = 12826]
3. Virus [Option ID = 12827]
4. Phytoplasma [Option ID = 12828]

8) What is the ploidy level of *Fragaria vesca*?

[Question ID = 3208][Question Description = 108_161_FSP_SEP22_Q08]

1. Haploid [Option ID = 12829]
2. Diploid [Option ID = 12830]
3. Triploid [Option ID = 12831]
4. Tetraploid [Option ID = 12832]

9) The “November Dump” of bananas in the Southern Hemisphere is associated with

[Question ID = 3209][Question Description = 109_161_FSP_SEP22_Q09]

1. Very low day temperature [Option ID = 12833]
2. Very low night temperature [Option ID = 12834]
3. Very high day temperature [Option ID = 12835]
4. Very high night temperature [Option ID = 12836]

10) Given below are two statements

Statement I: ‘Honey Sweet’ is a mutant variety of plum.

Statement II: It is highly resistant to plum pox potyvirus.

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

[Question ID = 3210][Question Description = 110_161_FSP_SEP22_Q10]

1. Both Statement I and Statement II are true [Option ID = 12837]
2. Both Statement I and Statement II are false [Option ID = 12838]
3. Statement I is true but Statement II is false [Option ID = 12839]
4. Statement I is false but Statement II is true [Option ID = 12840]

11) Which of the following statement (s) is/are NOT TRUE for “Northern Spy”?

- A. It is the traditional apple rootstock of New Zealand
- B. It was explored as a resistant source for woolly apple aphid
- C. It fails to produce profitable trees on second class soils
- D. It gives profitable trees on second class soils as well

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

[Question ID = 3211][Question Description = 111_161_FSP_SEP22_Q11]

1. A, B and D only [Option ID = 12841]
2. B only [Option ID = 12842]
3. C only [Option ID = 12843]
4. D only [Option ID = 12844]

12) Arrange the apple rootstocks according to their vigour (Dwarf to Vigorous)

- A. M.9
- B. M.2
- C. M.4
- D. M.7

Choose the *correct* answer from the options given below

[Question ID = 3212][Question Description = 112_161_FSP_SEP22_Q12]

1. A, D, C, B [Option ID = 12845]
2. B, A, D, C [Option ID = 12846]
3. A, B, D, C [Option ID = 12847]
4. A, B, C, D [Option ID = 12848]

13) Gradient of which of the following hormone is required to establish appropriate bipolar symmetry during embryo development?[Question ID = 3213][Question Description = 113_161_FSP_SEP22_Q13]

1. Auxin [Option ID = 12849]
2. Gibberellins [Option ID = 12850]
3. Cytokinins [Option ID = 12851]
4. Absciscic Acid [Option ID = 12852]

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

Assertion A: "Bartlett" pear fruits are mostly canned.

Reason R: It is mainly because the fruits of "Bartlett" have a uniform shape, white flesh and comparatively free from grit cells.

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

[Question ID = 3214][Question Description = 114_161_FSP_SEP22_Q14]

1. Both A and R are true and R is the correct explanation of A [Option ID = 12853]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 12854]
3. A is true but R is false [Option ID = 12855]
4. A is false but R is true [Option ID = 12856]

15) In which of the following grafting method the polarity of the rootstock is reversed?

[Question ID = 3215][Question Description = 115_161_FSP_SEP22_Q15]

1. Bracing [Option ID = 12857]
2. Nurse-root grafting [Option ID = 12858]
3. Approach grafting [Option ID = 12859]
4. Bridge grafting [Option ID = 12860]

16) The trifoliate orange (*Poncirus trifoliata*) is considered donor for following trait(s)

- A. Phytophthora resistance
- B. Nematode resistance
- C. Dwarfness
- D. Drought tolerance

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

[Question ID = 3216][Question Description = 116_161_FSP_SEP22_Q16]

1. A, B and C only
[Option ID = 12861]
2. A, B and D only
[Option ID = 12862]
3. A only
[Option ID = 12863]
4. B only
[Option ID = 12864]

17) Which of the following is known as a Himalayan hazel?

[Question ID = 3217][Question Description = 117_161_FSP_SEP22_Q17]

1. *Corylus avellana* [Option ID = 12865]
2. *Corylus ferox* [Option ID = 12866]
3. *Corylus wangii* [Option ID = 12867]
4. *Corylus colourna* [Option ID = 12868]

18) Match List I with List II

List I	List II
Mangifera species	Trait
A. <i>Mangifera camptosperma</i>	I. Colour genes
B. <i>Mangifera griffiti</i>	II. Low-temperature tolerance
C. <i>Mangifera khasiana</i>	III. Resistance to anthracnose
D. <i>Mangifera laurina</i>	IV. Tolerance to submergence

Choose the correct answer from the options given below:

[Question ID = 3218][Question Description = 118_161_FSP_SEP22_Q18]

1. A - III, B - II, C - IV, D - I [Option ID = 12869]
2. A - IV, B - I, C - II, D - III [Option ID = 12870]
3. A - I, B - III, C - IV, D - II [Option ID = 12871]
4. A - IV, B - III, C - II, D - I [Option ID = 12872]

19) Which of the following is/ are Not True for Mango malformation?

- A. Putative causal agent is *Fusarium moliformae*
- B. Induces ethylene stress
- C. Cyanide is derived from ethylene biosynthesis which induces necrosis
- D. Amrapali is considered highly tolerant to malformation

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

[Question ID = 3219][Question Description = 119_161_FSP_SEP22_Q19]

1. A, B and D only [Option ID = 12873]
2. B only [Option ID = 12874]
3. C only [Option ID = 12875]
4. D only [Option ID = 12876]

20) Rootstocks namely, Myran, Siberian Sea, Rubira and Citation are used in which fruit crop?

[Question ID = 3220][Question Description = 120_161_FSP_SEP22_Q20]

1. Apple [Option ID = 12877]
2. Peach [Option ID = 12878]
3. Walnut [Option ID = 12879]
4. Grape [Option ID = 12880]

21) Which of the following is/ are TRUE for Nectarine?

- A. It is fuzzless peach
- B. Smaller fruit size than peach
- C. Larger fruit size than peach
- D. Fruit has a stronger flavor and aroma than peach

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

[Question ID = 3221][Question Description = 121_161_FSP_SEP22_Q21]

1. A, B and D only [Option ID = 12881]
2. A only [Option ID = 12882]
3. B only [Option ID = 12883]
4. C only [Option ID = 12884]

22) Given below are two statements:

Statement I: The amarelle types of sour cherry have red flesh and juice.

Statement II: The morello types of sour cherry have colorless juice and flesh.

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

[Question ID = 3222][Question Description = 122_161_FSP_SEP22_Q22]

1. Both Statement I and Statement II are true [Option ID = 12885]
2. Both Statement I and Statement II are false [Option ID = 12886]
3. Statement I is true but Statement II is false [Option ID = 12887]
4. Statement I is false but Statement II is true [Option ID = 12888]

23) Match List I with List II

List I	List II
<i>Vitis species</i>	Traits
A. <i>Vitis champini</i>	I. Downy mildew resistant
B. <i>Vitis aestivalis</i>	II. Lime resistant
C. <i>Vitis monticola</i>	III. Hot condition tolerance
D. <i>Vitis amurensis</i>	IV. Nematode resistant

Choose the correct answer from the options given below:

[Question ID = 3223][Question Description = 123_161_FSP_SEP22_Q23]

1. A -I, B -III, C -IV , D - II [Option ID = 12889]
2. A -III , B -IV , C -II , D -I [Option ID = 12890]
3. A -IV , B -I , C - III, D - II [Option ID = 12891]
4. A -IV, B -III, C -II, D -I [Option ID = 12892]

24) Which of the following states has the highest number of Agri Export Zone Projects?

[Question ID = 3224][Question Description = 124_161_FSP_SEP22_Q24]

1. Uttar Pradesh [Option ID = 12893]
2. Manipur [Option ID = 12894]
3. Madhya Pradesh [Option ID = 12895]
4. Maharastra [Option ID = 12896]

25) Which of the following banana variety develops a characteristic flavor only under high elevations?

[Question ID = 3225][Question Description = 125_161_FSP_SEP22_Q25]

1. Ney Poovan [Option ID = 12897]
2. Grande Naine [Option ID = 12898]
3. Virupakshi [Option ID = 12899]
4. Robusta [Option ID = 12900]

26) Which of the following is a standard indicator for exocortis?[Question ID = 3226][Question Description = 126_161_FSP_SEP22_Q26]

1. Acid lime [Option ID = 12901]
2. Sweet lime [Option ID = 12902]
3. West Indian lime [Option ID = 12903]
4. Rangpur lime [Option ID = 12904]

27) Which of the following Juglans species has the most cold tolerance?

[Question ID = 3227][Question Description = 127_161_FSP_SEP22_Q27]

1. *Juglans cinerea* [Option ID = 12905]
2. *Juglans micrcarpa* [Option ID = 12906]
3. *Juglans nigra* [Option ID = 12907]
4. *Juglans hindsii* [Option ID = 12908]

28) Given below are two statements:

Statement I: The apetalous cultivars of apple bear annual crops of parthenocarpy seedless fruits.

Statement II: The parthenocarpic apple fruits are late ripening and have good storage than seeded fruits.

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

[Question ID = 3228][Question Description = 128_161_FSP_SEP22_Q28]

1. Both Statement I and Statement II are true [Option ID = 12909]
2. Both Statement I and Statement II are false [Option ID = 12910]
3. Statement I is true but Statement II is false [Option ID = 12911]
4. Statement I is false but Statement II is true [Option ID = 12912]

29) Which is/ are NOT TRUE for inheritance pattern (s) in mango?

- A. Fruit size appears to be governed by additive genes
- B. Red skin color was reported to be dominant and influenced by duplicate genes
- C. Dwarf tree habit, precocity and regularity are governed by dominant genes
- D. Dwarf tree habit, precocity and regularity are governed by recessive genes

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

[Question ID = 3229][Question Description = 129_161_FSP_SEP22_Q29]

1. A, B and D only [Option ID = 12913]
2. B only [Option ID = 12914]
3. C only [Option ID = 12915]
4. D only [Option ID = 12916]

30) Which of the following derivatives are contained in pomegranate fruit skin?

- A. Sorbitols

- B. Mannitols
- C. Cyanidin
- D. Pelargonidin

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

[Question ID = 3230][Question Description = 130_161_FSP_SEP22_Q30]

1. A, B and D only [Option ID = 12917]
2. A and B only [Option ID = 12918]
3. B only C only [Option ID = 12919]
4. C and D only [Option ID = 12920]

31) Given below are two statements

Statement I: The pollination constant persimmon cultivars do not change the flesh color after pollination.

Statement II: On the contrary, the pollination variant persimmon cultivars have the flesh with dark reddish-brown when seedless while light-colored when seeded.

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

[Question ID = 3231][Question Description = 131_161_FSP_SEP22_Q31]

1. Both Statement I and Statement II are true [Option ID = 12921]
2. Both Statement I and Statement II are false [Option ID = 12922]
3. Statement I is true but Statement II is false [Option ID = 12923]
4. Statement I is false but Statement II is true [Option ID = 12924]

32) Match List I with List II

List I	List II
Fruit crop	Newly developed variety
A. Pummelo	I. Arka Poorna
B. Rambutan	II. Arka Suprabhat
C. Mango	III. Arka Chandra
D. Guava	IV. Arka Coorg Arun

Choose the correct answer from the options given below:

[Question ID = 3232][Question Description = 132_161_FSP_SEP22_Q32]

1. A -I, B -II, C -IV, D -III [Option ID = 12925]
2. A -III, B -IV, C -II, D -I [Option ID = 12926]
3. A -III, B -II, C -I, D -IV [Option ID = 12927]
4. A -I, B -III, C -II, D -IV [Option ID = 12928]

33) Which of the following is/are NOT a disease warning system(s) for apple?

- A. VENTEM
- B. BLITECAST
- C. PODEM
- D. ADEM

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

[Question ID = 3233][Question Description = 133_161_FSP_SEP22_Q33]

1. A, B and D only [Option ID = 12929]
2. B and C only [Option ID = 12930]
3. A only [Option ID = 12931]
4. B only [Option ID = 12932]

34) Which is one of the finest subtropical fruits in *Annona* ?[Question ID = 3234][Question Description = 134_161_FSP_SEP22_Q34]

1. *Annona glabra* [Option ID = 12933]
2. *Annona cherimola* [Option ID = 12934]
3. *Annona squamosa* [Option ID = 12935]
4. *Annona reticulata* [Option ID = 12936]

35) The alcoholic spirit “raki” is prepared from _____

[Question ID = 3235][Question Description = 135_161_FSP_SEP22_Q35]

1. Fig [Option ID = 12937]
2. Apricot [Option ID = 12938]
3. Pear [Option ID = 12939]
4. Date palm [Option ID = 12940]

36) Given below are two statements :

Statement I: In walnut, staminate flowers are borne on catkins that develop from lateral buds on the previous season's growth, while pistillate flowers are borne terminally on the current season's growth.

Statement II: In walnut cv. Payne, besides terminals and sub terminals, 80-90 % of the lateral buds produce pistillate flowers.

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

[Question ID = 3236][Question Description = 136_161_FSP_SEP22_Q36]

1. Both Statement I and Statement II are true [Option ID = 12941]
2. Both Statement I and Statement II are false [Option ID = 12942]
3. Statement I is true but Statement II is false [Option ID = 12943]
4. Statement I is false but Statement II is true [Option ID = 12944]

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

Assertion A: Pink glowTM is a pink-fleshed transgenic pineapple cultivar developed by Del Monte Fresh.

Reason R: Silencing of *Psy* (Phytoene synthase gene) in carotenoids biosynthetic pathway by transgene leads to higher Lycopene accumulation.

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

[Question ID = 3237][Question Description = 137_161_FSP_SEP22_Q37]

1. Both A and R are true and R is the correct explanation of A [Option ID = 12945]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 12946]
3. A is true but R is false [Option ID = 12947]
4. A is false but R is true [Option ID = 12948]

38) Which of the following pair has early maturing ber cultivars?[Question ID = 3238][Question Description = 138_161_FSP_SEP22_Q38]

1. Gola and Seo [Option ID = 12949]
2. Jogia and Mundia [Option ID = 12950]
3. Muria Mahrara and Mehrun [Option ID = 12951]
4. Umran and Illaichi [Option ID = 12952]

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

Assertion A: Crosses between two nectarine genotypes produce nectarine like fuzzless progenies.

Reason R: Fuzzlessness in nectarine is controlled by recessive gene "g" and nectarines are homozygous recessive "gg".

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

[Question ID = 3239][Question Description = 139_161_FSP_SEP22_Q39]

1. Both A and R are true and R is the correct explanation of A [Option ID = 12953]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 12954]
3. A is true but R is false [Option ID = 12955]
4. A is false but R is true [Option ID = 12956]

40) Honeycombing and pitting are typical symptoms of[Question ID = 3240][Question Description = 140_161_FSP_SEP22_Q40]

1. Apple scab [Option ID = 12957]
2. Mango malformation [Option ID = 12958]
3. Panama wilt [Option ID = 12959]
4. Tristeza [Option ID = 12960]

41) Arrange the plant growth regulators according to their application in different stages of the grape production (starting from pruning to fruit ripening)

A. Cycocel

B. Hydrogen cyanamide

C. Gibberellic acid

D. Ethrel

Choose the *correct* answer from the options given below

[Question ID = 3241][Question Description = 141_161_FSP_SEP22_Q41]

1. B, A, C, D
[Option ID = 12961]
2. A, B, C, D
[Option ID = 12962]
3. C, A, D, B
[Option ID = 12963]
4. D, B, C, A
[Option ID = 12964]

42) Match List I with List II

List I	List II
Crop Species	Origin Place
A. <i>Citrus Paradisi</i>	I. Brazil
B. <i>Passiflora edulis</i>	II. West Asia
C. <i>Ficus carica</i>	III. West Indies
D. <i>Diospyros kaki</i>	IV. China

Choose the correct answer from the options given below:

[Question ID = 3242][Question Description = 142_161_FSP_SEP22_Q42]

1. A -I, B -II, C -III, D -IV [Option ID = 12965]
2. A -III, B -IV, C -II, D -I [Option ID = 12966]
3. A -III, B -I, C -II, D -IV [Option ID = 12967]
4. A -II, B -III, C -I, D -IV [Option ID = 12968]

43) Which of the following factor is responsible for Almond's "double kernels" disorder?[Question ID = 3243][Question Description = 143_161_FSP_SEP22_Q43]

1. Low temperature at blooming [Option ID = 12969]
2. Zn deficiency at fruit set [Option ID = 12970]
3. Rainfall at the fruit developing stage [Option ID = 12971]
4. Moisture stress coincides with fruit maturity [Option ID = 12972]

44) Given below are two statements

Statement I: The purple passionfruit (*Passiflora edulis*) is adapted to tropical lowland conditions.

Statement II: The golden passionfruit (*Passiflora edulis* f. *flavicarpa*) is most suited to cooler subtropics or at high altitudes in the tropics.

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

[Question ID = 3244][Question Description = 144_161_FSP_SEP22_Q44]

1. Both Statement I and Statement II are true [Option ID = 12973]
2. Both Statement I and Statement II are false [Option ID = 12974]
3. Statement I is true but Statement II is false [Option ID = 12975]
4. Statement I is false but Statement II is true [Option ID = 12976]

45) Match List I with List II

List I	List II
Banana variety	Genomic group
A. Pisang Lilin	I. AAA
B. Gros Michel	II. AB
C. Gold Finger	III. AA
D. Ney Poovan	IV. AAAA

Choose the correct answer from the options given below:

[Question ID = 3245][Question Description = 145_161_FSP_SEP22_Q45]

1. A -I, B -II, C -III, D -IV [Option ID = 12977]
2. A -III, B -I, C -IV, D -II [Option ID = 12978]

3. A -I, B -III, C -IV, D -II [Option ID = 12979]
4. A -IV, B -III, C -I, D -II [Option ID = 12980]

46) Which of the following papaya variety possesses quantative resistance to papaya ring spot disease?

[Question ID = 3246][Question Description = 146_161_FSP_SEP22_Q46]

1. Phule Vijaya [Option ID = 12981]
2. Pusa Nanha [Option ID = 12982]
3. Arka Surya [Option ID = 12983]
4. Coorg Honey Dew [Option ID = 12984]

47) Given below are two statements

Statement I: The Olive trees are sensitive to salts.

Statement II: Saline irrigation decreased the linoleic acid content of oil and increased that of oleic acid.

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

[Question ID = 3247][Question Description = 147_161_FSP_SEP22_Q47]

1. Both Statement I and Statement II are true [Option ID = 12985]
2. Both Statement I and Statement II are false [Option ID = 12986]
3. Statement I is true but Statement II is false [Option ID = 12987]
4. Statement I is false but Statement II is true [Option ID = 12988]

48) At what time do the maximum numbers of male flowers open in aonla?

[Question ID = 3248][Question Description = 148_161_FSP_SEP22_Q48]

1. 6 and 7 AM [Option ID = 12989]
2. 11 and 12 AM [Option ID = 12990]
3. 6 and 7 PM [Option ID = 12991]
4. 11 and 12 PM [Option ID = 12992]

49) In which fruit crop shell dehiscence is an important trait?

[Question ID = 3249][Question Description = 149_161_FSP_SEP22_Q49]

1. Almond [Option ID = 12993]
2. Walnut [Option ID = 12994]
3. Pecan [Option ID = 12995]
4. Pistachios [Option ID = 12996]

50) Which of the following fruit contains abundant pectin?[Question ID = 3250][Question Description = 150_161_FSP_SEP22_Q50]

1. Apple [Option ID = 12997]
2. Pear [Option ID = 12998]
3. Peach [Option ID = 12999]
4. Apricot [Option ID = 13000]