AFO EXAM ANALYSIS 2024

Q1. Which type of organism thrives in high organic substrate conditions?
(a) Autotrophs
(b) Heterotrophs
(c) Biotroph
(d) Aerobic
(e) Autochthonous

Q2. What is the typical oestrous cycle duration for ewes?
(a) 20 (18-24 days)
(b) 21 (20-2
(c) 15 (14-1
(d) 10 (6-14
(e) 16 (14-1

Q3. What pe oeci
(a) 10
(b) 20
(c) 15
(d) 25
(e) 30

Q4. What is l in ilt,
(a) Equal pe
(b) Equal pr of sa , and ay
(c) Equal pr of an ilt d lay
(d) No relati n sand, si ar cla
(e) Dominat sa a d clay

Q5. Where i
(a) Ranchi
(b) Kolkata
(c) Kanpur
(d) Hyderabad
(e) Bhopal

Q6. For determining water requirements, the drum head culture technique is used for which crop?
(a) Wheat
(b) Rice
(c) Potato
(d) Jute/Maize
(e) Rapeseed

Q7. Which microorganism or biopesticide causes symptoms similar to caterpillar wilt on plants?
(a) Bacillus thuringiensis
(b) Nuclear Polyhedrosis Virus
(c) Beauveria bassiana
(d) Bacillus sphaericus
(e) Paecilomyces lilacinus

Q8. Phosphate-solubilizing bacteria (PSB) are used to enhance the availability of which nutrient?
(a) Nitrogen
(b) Potassium
(c) Phospho
(d) Calcium
(e) Sulphur

Q9. What is d?
(a) Sheet
(b) Rill
(c) Ravine
(d) Riverbar
(e) Splash e

Q10. What i s above ₹3 lakh and u e during FY 2022-23?
(a) 1.5%
(b) 4%
(c) 2%
(d) 5%
(e) 3%

Q11. What i mate?
(a) Mangrov
(b) Savannah
(c) Boreal forest
(d) Cloud forest
(e) Subtropical Forest

Q12. What is the fat content present in Double Tone Milk?
(a) 3%
(b) 2%
(c) 1.5%
(d) 2.5%
(e) 3.5%

Q13. Muga silkworm feeds on which plants?
(a) Morus alba
(b) Terminalia arjuna
(c) Machilus bombycina
(d) Bombax ceiba
(e) Ricinus communis

Q14. Gibberellin was first isolated from which organism?
(a) Fungus
(b) Virus
(c) Bacteria
(d) Mycopla
(e) BGA

Q15. The Jo
(a) Indian S
(b) America
(c) Taylor a
(d) Oxford A
(e) Organic

Q16. What i fficiency?
(a) kg/ha/m
(b) gm/ha/
(c) Kg/hac/
(d) mm/kg
(e) kg/ha

Q17. In soil,
(a) Neutral
(b) Positive
(c) Negative
(d) No
(e) Optimistic

Q18. Arka Puneet, a variety of mango resistant to spongy tissue and producing oval-shaped fruit, is developed by crossing?
(a) Dassehari × Neelum
(b) Alphonso × Banganapalli
(c) Ratna × Alphonso
(d) Neelum × Alphonso
(e) Banganapalli × Alphonso

Q19. Which is a non-protein nitrogen component found in fish?
(a) TMAO
(b) Collagen
(c) Myosin
(d) Typson
(e) Acetone

Q20. Which type of soil contains high organic content and humus?
(a) Peat Soil
(b) Red Soil
(c) Laterite
(d) Arid Soil
(e) Dessert

Q21. Leaf a
(a) Propelle
(b) Ceptome
(c) Orifice m
(d) Lux met
(e) Air flow

Q22. Lordos the deficiency of?
(a) Vit B12
(b) Vit C
(c) Vit B3
(d) Vit D
(e) Vit B2

Q23. For th
(a) Dr. Samp
(b) P Bhatta
(c) Dr. G Choudhary
(d) Elias Ivanoff
(e) G C Banerjee

Q24. Which of the following is the hybrid variety of apple made by crossing Red Delicious × Ambri, which is colorful and sweet in taste and has good shelf life?
(a) Sunheri
(b) Ambroyal
(c) Lal Ambri
(d) Ambrich
(e) Chaubatia Anupam

Q25. Pusa Jai Kisan is a variety of?
(a) Mustard
(b) Lentil
(c) Rice
(d) Wheat
(e) Maize

Q26. In which demonstration type is the method of doing something shown to farmers (like broadcasting, sowing, grafting) to explain and motivate them to adopt new techniques?
(a) Extension education
(b) Front Line demonstration
(c) Method
(d) Result d
(e) Farm an

Q27. Which
(a) Scale of
(b) Scale of
(c) Scale of
expense + C
(d) Scale of
expense + C
(e) Scale of
of limit towa

Q28. In Min
(a) Compreh
(b) Interest
(c) Future lo
(d) Wages ta
(e) Compreh

Q29. Vanara
(a) CARI, Izzatnagar
(b) DPR, Hyderabad
(c) KVAF, Bangalore
(d) CPBF, Mumbai
(e) CPBF, Chandigarh

Q30. Laboratory testing under DPPS is approved by which autonomous body under ISO/IEC 17011?
(a) ICAR
(b) NABL laboratory certification
(c) National Horticultural Board
(d) NCIPM
(e) National accreditation for testing and calibrating laboratories

Q31. Which of the following inoculum, when cultured in a laboratory, can be used to increase the availability of Phosphorous in the soil?
(a) Azolla
(b) Azospirillum
(c) Azotobacter
(d) Pseudomonas striata
(e) Anabaena

Q32. For Egg shell formation, which nutrient is essential?
(a) Ca
(b) P
(c) Mg
(d) Fe
(e) K

Q33. What i ge practices, which gives
(a) 3 to 4
(b) 0.25-0.5
(c) 0.5-2
(d) 0.75-2.2
(e) 0.10-0.2

Q34. The p ozygou iduals a shable from homozygous
(a) Genetic
(b) Incompl
(c) Heritabil
(d) Heredity
(e) Homozy

Q35. Irradia potato and reduce sola
(a) 0.03 kGy
(b) 0.1 kGy
(c) 0.01 kGy
(d) 0.25 kGy
(e) 0.30 kGy

Q36. What is the germination percentage required for the hybrid seed production of tomato?
(a) 80%
(b) 85%
(c) 70%
(d) 90%
(e) 75%

Q37. What is the right time for harvesting Button mushrooms?
(a) Lower part gets round, and mushroom turns brown
(b) When the mushroom attains egg size
(c) When 30-35 cm head with double height of pedicle and twice the height of stem
(d) Diameter gets bigger 2-3 times than the lower stem
(e) Harvesting is done at button stage

Q38. GMO food developed using genetic engineering or having microorganisms in it is known as?
(a) Organic food
(b) Novel food
(c) Genetically modified or Engineered food
(d) Health fo
(e) Conventi

Q39. For Al which of the following?
(a) Liquid ni
(b) Burst ice
(c) Cold ice
(d) Helium
(e) Sodium

Q40. Who h enor of the Sub-Con Consultative Committee (edits?
(a) LDO of R
(b) DDM of
(c) Lead Dis ager
(d) District
(e) CEO of Z ishad

Q41. Marigo
(a) Jassids
(b) Thrips
(c) Nematode
(d) Aphid
(e) Whitefly

Q42. What is the maximum limit per borrower in the Agriculture sector under priority sector lending by banks, NBFC (other than MFIs)?
(a) 10 lakhs
(b) 15 lakhs
(c) 20 lakhs
(d) 25 lakhs
(e) 5 lakhs

Q43. What are the symptoms of Brucellosis disease in goats?
(a) Abortion in late pregnancy
(b) Abdomen pain and Loss of appetite
(c) Abortion or delivery of immature baby calf
(d) Swollen udder and Pain in udder and yield reduction
(e) Fever, nasal discharge and coughing

Q44. Convulsions of the mammary gland and cessation of lactation and shrinkage of alveolus is termed as?
(a) Galatopoiesis
(b) Involuti
(c) Galactop
(d) Galectox
(e) Lacteal

Q45. Which
(a) Free Gos
(b) Marmeic
(c) HCN
(d) Aflatoxi
(e) Phytate

Q46. Mostly taka, most adopted in October-November, a s call
(a) Ratoon
(b) Suru
(c) Eksali
(d) Adsali
(e) Pre Seas

Q47. Which f the bower system but
(a) Y trellis
(b) Espalier
(c) Overhead and Kniffin
(d) Telephone and Kniffin
(e) Kniffin and V

Q48. The ratio of Yellow stem borer and Wolf spider (Predator) for the IPM management of Rice is?
(a) 1:5
(b) 1:10
(c) 1:15
(d) 1:20
(e) 10:1

Q49. What is the percentage contribution of the livestock sector to the agriculture GVA in India?
(a) 30.23 %
(b) 28.65%
(c) 33%
(d) 24%
(e) 25%

Q50. Which is the branch of meteorology in which forecast is done for crop, tillage, and animal husbandry?
(a) Synoptic
(b) Agricult
(c) Dynamic
(d) Statistic
(e) Physical

Q51. The li which is l ne animal is called?
(a) Crude fi
(b) Crude p
(c) Prostagl
(d) Tri glyce
(e) Glycerol

Q52. When edlings a gr n n se es, whi h mple us e o ce seedlings in puddled s nditi ?
(a) Hand ho
(b) Seed Dri
(c) Transpla
(d) Seed cum fertilizer
(e) Planter

Q53. Modified stems grow horizontally on or below the surface with nodes, internodes, and scars of leaves. This is called?
(a) Runner
(b) Offshoot
(c) Sucker
(d) Rhizome
(e) Tuber

Q54. Which selective herbicide is commonly used for pre and post-emergence weed control in grass-like plants such as rice and maize or broadleaf crops?
(a) 2,4 D
(b) Glyphosate
(c) Atrazine
(d) Butachlor
(e) Pendimethalin

Q55. Fig is more susceptible to sunscald. It can be managed by?
(a) Training and girdling
(b) By some
(c) Maintain
(d) Spray of
(e) Applicat

Q56. What i Zn, nts?
(a) Energy e
(b) Regulato
(c) Chemica
(d) Energy s ansfe
(e) Enzyme

Q57. What t oduci plants
(a) Endospe
(b) Callus cu
(c) Shoot Me Embry ulture
(d) Pollen cu
(e) Apical m m

Q58. It is th
(a) Diamond
(b) Leaf Wel
(c) Stripped beetle
(d) Stem borer
(e) Painted bug

Q59. The amount of water vapor that is present in the environment as opposed to how much water vapor it can hold in terms of percentage is called?
(a) Relative humidity
(b) Saturation water vapor pressure
(c) Vapor pressure deficit
(d) Dew point

Solutions

S1. Ans.(b)
Sol. Heterotrophs proliferate in high organic substrate conditions because they rely on organic matter as a source of energy and nutrients.

S2. Ans.(e)
Sol. The oestrous cycle of an ewe lasts around 16 days, ranging between 14-19 days. It is the reproductive cycle where the ewe becomes receptive to breeding.

S3. Ans.(a)
Sol. In dioe ither female or hermaph

S4. Ans.(b)
Sol. Loam s lture due to its balanced

S5. Ans.(e)
Sol. The ICA Eng eerin adesh.

S6. Ans.(b)
Sol. The dru pecifically used to ents of rice, as it helps m ly in

S7. Ans.(b)
Sol. The Nu hedr Virus (PV) is a biopest t i fec ca e lar g symptoms similar to w ant, ltim ate leadin to their dea

S8. Ans.(c)
Sol. PSB he growth and developmen

S9. Ans.(c)
Sol. The ravine stage of gully erosion is the most advanced, where large amounts of soil are removed and transported, particularly in alluvial soils.

S10. Ans.(d)
Sol. For loans exceeding ₹3 lakh and up to ₹5 lakh, banks are subvented at a uniform rate of 5% per annum to support credit availability at lower interest rates.

S11. Ans.(b)
Sol. Savannah refers to a landscape characterized by widely spaced trees and grasses, typically found in hot climates. It is a common biome in regions like Africa, South America, and Australia.

S12. Ans.(c)
Sol. Double tone milk contains 1.5% fat. It is a low-fat milk option achieved by further processing toned milk to reduce fat content while maintaining nutritional value.

S13. Ans.(c)
Sol. Machilus bombycina (commonly called Som) is the primary food plant of the Muga silkworm, which is cultivated primarily in Assam for producing golden-colored silk.

S14. Ans.(a)
Sol. Gibberellin was first isolated from a fungus called *Gibberella fujikuroi*. This plant hormone promotes growth, see

S15. Ans.(c)
Sol. The Jou blisher that specializes i

S16. Ans.(a
Sol. Crop w terms of ld obtained (kilograms p d (in illim

S17. Ans.(c)
Sol. In soil, s (like clay and hum rally carry a negative cha em to at nd hold ons).

S18. Ans.(c)
Sol. Arka Pu mang riety de eloped hrough bet vee Ra d A . It is known for its resist sp gy su nd pr uce high-q ity, ova haned s.

S19. Ans.(a
Sol. TMAO ish. It helps protect fish

S20. Ans.(a)
Sol. Peat soil contains a high amount of organic matter and humus. It forms in waterlogged conditions where decomposition is slow, leading to the accumulation of organic material.

S21. Ans.(b)
Sol. Leaf Area Index (LAI) is a measure of the leaf surface area per unit ground area. A Ceptometer is specifically used to measure the Leaf Area Index (LAI) by assessing the amount of light intercepted by plant canopies.
It works on the principle of measuring photosynthetically active radiation (PAR) under the canopy and in open space to estimate the leaf area and its density. Ceptometers are widely used in agricultural and ecological research to evaluate plant growth, productivity, and canopy structure.

S22. Ans.(b)

Sol. Lordosis in fish is caused due to a deficiency of Vitamin C. Vitamin C plays a critical role in collagen synthesis, and its deficiency leads to skeletal deformities like Lordosis.

S23. Ans.(a)

Sol. Artificial Insemination (AI) in India was first introduced by Dr. Sampath Kumaran. AI has significantly contributed to genetic improvement in cattle and enhanced milk productivity.

S24. Ans.(c)

Sol. Lal Amb nown for its vibrant colo

S25. Ans.(a

Sol. Pusa Jai uctivity and improve dis

S26. Ans.(c)

Sol. In a Me f doi ome to farmers, such as graf o hel unde e.

S27. Ans.(e

Sol. The cor tent of area cultivated, a nal nt pos sses, r bai exp ses, an nsurance, as described in (e)

S28. Ans.(d

Sol. In MSP abor for the farmer's ow

S29. Ans.(b)

Sol. Vanaraja chicken was developed by the Directorate of Poultry Research (DPR), Hyderabad. It is a dual-purpose bird suitable for both meat and egg production in rural areas.

S30. Ans.(b)

Sol. NABL (National Accreditation Board for Testing and Calibration Laboratories) provides accreditation for laboratory testing under the DPPS. NABL operates as per ISO/IEC 17011 standards for evaluating competence in laboratories.

S31. Ans.(d)
Sol. Pseudomonas striata is a phosphate-solubilizing bacteria (PSB) that enhances the availability of phosphorus in the soil by breaking down insoluble phosphates into absorbable forms for plants.

S32. Ans.(a)
Sol. Calcium (Ca) is essential for eggshell formation. It is required in large quantities as eggshells are composed of calcium carbonate, providing strength and structure to the shell.

S33. Ans.(c)
Sol. The optimal electrical conductivity (EC) of soil ranges between 0.5-2 ds/m. Soils with EC within this range suppo

S34. Ans.(b
Sol. Incomp e phenotype that is distin

S35. Ans.(b
Sol. 0.1 kGy bit sp outin nts solanine accumulatio d in qua

S36. Ans.(d
Sol. The req ge for d prod ensure high-quality seed

S37. Ans.(e
Sol. Button oms are ar ted at e b tton st g , v are s ll, m have not yet opened thei . Thi tage nsures he best uality a marke e

S38. Ans.(c
Sol. Genetic techniques to introduce new traits, such as pest resistance or increased nutrition, into crops.

S39. Ans.(a)
Sol. Liquid nitrogen is used to store semen for Artificial Insemination (AI) at ultra-low temperatures of -196°C, ensuring the preservation of sperm viability for extended periods.

S40. Ans.(c)
Sol. The Lead District Manager (LDM) is appointed as the convenor of the Sub-Committees (SSCs) of the District Consultative Committee (DCC) for regulating credits. The LDM plays a crucial role in ensuring smooth credit flow and implementing various government-sponsored schemes in coordination with banks.

S41. Ans.(c)
Sol. Marigold is widely used as a trap crop for nematodes. Its roots release certain chemicals that attract nematodes, which helps in controlling their population in agricultural fields.

S42. Ans.(a)
Sol. Under priority sector lending norms, the maximum limit per borrower in the Agriculture sector is set at ₹10 lakhs for loans provided by banks and NBFCs (other than Microfinance Institutions).

S43. Ans.(a)
Sol. Brucell[illegible] caused by *Brucella* [illegible]ing.

S44. Ans.(b
Sol. Involut[illegible]uction after lactation en[illegible]al.

S45. Ans.(a
Sol. Cotton [illegible], a to[illegible] com[illegible]estock when consumed i[illegible]ssing[illegible] redu[illegible]

S46. Ans.(b
Sol. The Su[illegible]m i[illegible]d Karnataka during Octo[illegible]ro[illegible]uc[illegible]6 months ensuring high pro[illegible]ity.

S47. Ans.(e
Sol. The Kni[illegible]d V system is used for training seedless grapes, [illegible]di[illegible]e [illegible]r[illegible] of the bower system whil[illegible]

S48. Ans.(c
Sol. For Inte[illegible] Wolf spider (predator) is 1:15, which helps control the pest population effectively.

S49. Ans.(a)
Sol. The livestock sector contributes approximately 30.23% to the Gross Value Added (GVA) in Indian agriculture. It is a significant contributor to rural incomes and food security.

S50. Ans.(b)
Sol. Agricultural meteorology, or agrometeorology, focuses on weather and climate forecasts for agriculture, including crop growth, soil moisture, irrigation, and animal husbandry. It helps farmers make informed decisions related to farming practices.

S51. Ans.(a)
Sol. Crude fibre is the indigestible portion of plant material, mainly composed of lignin, cellulose, and hemicellulose. It provides roughage in animal feed, aiding digestion and bowel movement.

S52. Ans.(c)
Sol. A transplanter is a mechanical device used to transplant rice seedlings from nurseries to puddled fields. It improves efficiency and reduces labor compared to manual transplantation.

S53. Ans.(d)
Sol. Rhizomes are underground horizontal stems that store nutrients and allow vegetative propagation. Examples in

S54. Ans.(d
Sol. Butachl d broadleaf weeds in cr

S55. Ans.(c
Sol. Sunscal taini g a c ying lime on the exposed uce h dam

S56. Ans.(c
Sol. Elemen Mo act as micronutri nctioning as enzyme acti

S57. Ans.(a
Sol. Endosp tum nv es lturin rip oid end sperm ti es to p ce p lants, which are often ste d used for seedless fruit production

S58. Ans.(a
Sol. The di abbage and cauliflower,

S59. Ans.(a)
Sol. Relative humidity is the ratio of the current water vapor amount in the air to the maximum water vapor the air can hold at a given temperature, expressed as a percentage.