

PROVISIONAL ANSWER KEY

Question Paper Code: 12/2015/OL
Category Code: 157/2013
Exam: Dairy Extension Officer
Medium of Question: English
Date of Test: 30-06-2015
Alphacode: A

Question1:-'Vala Samudaya Parishkarani Sabha' is connected with ?

- A:-Ayyankali
- B:-Vaikunda Swami
- C:-Pandit K P Karuppan
- D:-Vagbhadanandan

Correct Answer:- Option-C

Question2:-Who was selected as 'the Player of the series' of 2015 ICC World Cup?

- A:-Mitchell Starc
- B:-James Faulkner
- C:-Mitchell Johnson
- D:-Tim Southee

Correct Answer:- Option-A

Question3:-The Idea of Directive Principles was borrowed by India from?

- A:-USA
- B:-Ireland
- C:-Canada
- D:-Germany

Correct Answer:- Option-B

Question4:-Domestic Violence Act was passed in the year?

- A:-2008
- B:-2007
- C:-2005
- D:-2006

Correct Answer:- Option-C

Question5:-The Magazine 'Bhashashini' is associated with?

- A:-C Krishnan
- B:-Kumaran Assan
- C:-K Sukumaran
- D:-Kandathil Varghese Mappillai

Correct Answer:- Option-D

Question6:-The first exclusive educational satellite of India?

- A:-METSAT
- B:-EDUSAT
- C:-MOM
- D:-APPLE

Correct Answer:- Option-B

Question7:-The term 'Socialist and Secular' were added to the Preamble of Indian Constitution through Amendment?

- A:-73rd Amendment
- B:-86th Amendment
- C:-42nd Amendment
- D:-24th Amendment

Correct Answer:- Option-C

Question8:-The first state which fixed minimum educational qualification to contest for Panchayath polls?

- A:-Rajasthan
- B:-Madhyapradesh
- C:-Haryana
- D:-Punjab

Correct Answer:- Option-A

Question9:-Choose the right option in connection with Temple Entry Proclamation?

- A:-1936 December 11
- B:-1936 March 12
- C:-1936 November 11
- D:-1936 November 12

Correct Answer:- Option-D

Question10:-The father of the Cartoon 'Common man'?

- A:-Sankar
- B:-MF Hussain
- C:-RK Laxman
- D:-Gopikrishna

Correct Answer:- Option-C

Question11:-The Article which abolishes Untouchability?

- A:-Article 17
- B:-Article 19
- C:-Article 14
- D:-Article 15

Correct Answer:- Option-A

Question12:-Which day is observed as 'Pravasi Baratiya Divas'?

- A:-March 12
- B:-November 11
- C:-October 24
- D:-January 9

Correct Answer:- Option-D

Question13:-Who was the author of 'Pattabakki', the first political drama in Kerala?

- A:-TC Achuthamenon
- B:-K Damodaran
- C:-PK Kocheepan Tharakan
- D:-CV Raman Pillai

Correct Answer:- Option-B

Question14:-The Article 16 of Indian Constitution guarantees?

- A:-Prohibits human trafficking
- B:-Prohibits Child Labour

- C:-Equality of opportunity in matters of public employment
D:-Environmental Protection
Correct Answer:- Option-C
- Question15:-Which of the following Committee is associated with Fundamental Duties?
A:-Ashok Mehta Committee
B:-Balwant Rai Mehta Committee
C:-LM Singhvi Committee
D:-Swaran Singh Committee
Correct Answer:- Option-D
- Question16:-Who wrote 'Samshepa Vedartham'?
A:-Clement Planius
B:-Van Rheede
C:-George Mathan
D:-Herman Gundert
Correct Answer:- Option-A
- Question17:-Mahatma Gandhi National Rural Employment Guarantee Act aims to provide at least ?
A:-100 days of wage employment in a Calendar year
B:-100 days of wage employment in a financial year
C:-100 days of wage employment in two years
D:-100 days of free employment in two years
Correct Answer:- Option-B
- Question18:-Prof.Shantha Sinha is associated with ?
A:-UNICEF
B:-SEWA
C:-KWC
D:-NCPCR
Correct Answer:- Option-D
- Question19:-The word 'Lokpal' was coined by ?
A:-LM Singhvi
B:-Asooke Kumar Sen
C:-Morarji Desai
D:-Jawaharlal Nehru
Correct Answer:- Option-A
- Question20:-International Women's Day?
A:-February 8
B:-March 8
C:-May 8
D:-October 8
Correct Answer:- Option-B
- Question21:-Which among the following contain 65-85 percent milk fat
A:-Table cream
B:-Whipping cream
C:-Heavy cream
D:-Plastic cream
Correct Answer:- Option-D
- Question22:-The viscosity of the cream can be increased by
A:-Double stage homogenization
B:-Fast cooling of cream
C:-Ageing of cream
D:-Decreasing the fat percentage
Correct Answer:- Option-C
- Question23:-Feathering in hot coffee is due to defect in cream caused by
A:-Excessive homogenization pressure
B:-Excess heating of cream during pasteurization
C:-Fat hydrolysis due to lipase action
D:-Growth of proteolytic bacteria in cream
Correct Answer:- Option-A
- Question24:-In Swiss cheese making, the lactic acid bacteria convert lactose to lactic acid, which in turn is used by propionic bacteria to produce propionic acid. This is an example for
A:-Synergism
B:-Probiosis
C:-Metabiosis
D:-Antibiosis
Correct Answer:- Option-C
- Question25:-The production of gas in canned dairy products cause bulging of cans and it can be caused by
A:-Candida pseudotropicalis
B:-Escherichia coli
C:-Clostridium butyricum
D:-All the above
Correct Answer:- Option-D
- Question26:-If the standard plate count per milliliter of raw milk is in the range of 2,00,000 to 1 million, the grade recommended by Indian Standards Institution is
A:-Very good
B:-Good
C:-Fair
D:-Poor
Correct Answer:- Option-B
- Question27:-Which among the following is lower in buffalo milk as compared to cow milk
A:-pH
B:-Viscosity
C:-Curd tension
D:-Rennet clotting time
Correct Answer:- Option-D
- Question28:-Which among the following khoa based sweet is prepared by mixing khoa with maida in about 3:1 ratio
A:-Burfi
B:-Gulabjamun
C:-Kalakand
D:-Peda
Correct Answer:- Option-B
- Question29:-Which among the following has the highest sweetening power
A:-Fructose

- B:-Sucrose
 - C:-Maltose
 - D:-Lactose
- Correct Answer:- Option-A

Question30:-The area of the tongue with more sensitivity for sweetness is

- A:-Tip of the tongue
 - B:-Middle of the tongue
 - C:-Back of the tongue
 - D:-Edges of the tongue
- Correct Answer:- Option-A

Question31:-Which of the following is a cultivar of guinea grass

- A:-Jawahar
 - B:-Hamil
 - C:-Rahuri
 - D:-Gajraj
- Correct Answer:- Option-B

Question32:-The multipurpose fodder tree species commonly used for live fencing in Kerala

- A:-Gliricidia
 - B:-Sesbania grandiflora
 - C:-Calliandra calothyrsus
 - D:-Hedge lucerne
- Correct Answer:- Option-A

Question33:-Which of the following is an annual grass

- A:-Buffel grass
 - B:-Gamba grass
 - C:-Setaria grass
 - D:-Deenanath grass
- Correct Answer:- Option-D

Question34:-Vijay composite is a cultivar of

- A:-Fodder Sorghum
 - B:-Fodder Maize
 - C:-Fodder Bajra
 - D:-Hybrid Napier
- Correct Answer:- Option-B

Question35:-Which of the following fodder can be cultivated in poorly drained land

- A:-Buffel grass
 - B:-Gamba grass
 - C:-Para grass
 - D:-Guinea grass
- Correct Answer:- Option-C

Question36:-Which of the following fodder crop is best suited for silage making

- A:-Fodder maize
 - B:-Para grass
 - C:-Guinea grass
 - D:-Congo-signal grass
- Correct Answer:- Option-A

Question37:-The process of conversion of plant and animal residues to quickly utilizable form to improve and maintain soil fertility

- A:-Manuring
 - B:-Composting
 - C:-Scarification
 - D:-Harrowing
- Correct Answer:- Option-B

Question38:-An important tropical pulse crop profitably grown as a summer crop in rice fallows in Kerala in rotation sequence

- A:-Cow pea
 - B:-Alfalfa
 - C:-Berseem
 - D:-Cluster beans
- Correct Answer:- Option-A

Question39:-In hay making, the moisture content of the forage crop is reduced to

- A:-5-10%
 - B:-15-20%
 - C:-25-35%
 - D:-40-50%
- Correct Answer:- Option-B

Question40:-The fertilizer or manure that has to be applied as top dressing after each harvest in cultivation of guinea grass

- A:-Farmyard manure
 - B:-Nitrogen fertilizer
 - C:-Phosphorus fertilizer
 - D:-Potassium fertilizer
- Correct Answer:- Option-B

Question41:-The seed rate per hectare required for establishment of maize by dibbling

- A:-10-30 Kg
 - B:-40-60 Kg
 - C:-90-110 Kg
 - D:-130-150 Kg
- Correct Answer:- Option-B

Question42:-The type of cleaning agent most suitable for rubber parts in dairy equipments

- A:-Strong alkalies
 - B:-Weak alkalies with sodium silicate as inhibitor
 - C:-Weak alkalies with sodium sulphite as inhibitor
 - D:-Weak acids
- Correct Answer:- Option-A

Question43:-Egg solids can be added as an ingredient in ice-cream manufacture to

- A:-Improve stabilization
 - B:-Improve whipping ability
 - C:-Improve emulsification
 - D:-Improve fat content
- Correct Answer:- Option-B

Question44:-Which of the following help in predicting the shelf life of ghee

- A:-Polenske number
B:-Kirschner value
C:-Saponification number
D:-Induction period for oxygen absorption
Correct Answer:- Option-D
- Question45:-Which is a synergist that significantly increase the activity of primary anti-oxidants
A:-Ascorbic acid
B:-Butylated hydroxy anisole
C:- β - carotene
D:-Butylated hydroxy toluene
Correct Answer:- Option-A
- Question46:-Bluish grey or brownish milk can be due to proliferation of which bacteria in milk
A:-Streptococcus lactis
B:-Serratia marcescens
C:-Pseudomonas syncyanea
D:-Micrococcus reseau
Correct Answer:- Option-C
- Question47:-Bitter flavour in milk can be due to proliferation of
A:-Escherichia coli
B:-Streptococcus lactis
C:-Micrococcus species
D:-Yeast
Correct Answer:- Option-C
- Question48:-Paneer manufactured using citric acid as coagulant give
A:-Good flavour
B:-Higher guminess
C:-Higher chewiness
D:-Maximum hardness
Correct Answer:- Option-D
- Question49:-The anti-fungal agent that can be used to control surface spoilage of paneer
A:-Sodium alginate
B:-Chlorinated water
C:-Disodium phosphate
D:-Trisodium phosphate
Correct Answer:- Option-B
- Question50:-The type of milk more suitable to produce channa which offers good rossogolla
A:-Milk with fat content below 3 percent
B:-Presence of colostrum milk
C:-Buffalo milk
D:-Mixture of 75% buffalo milk and 25% cows milk
Correct Answer:- Option-D
- Question51:-Which is not a rapid platform test performed for raw milk
A:-Direct microscopic count
B:-Clot on boiling test
C:-Standard plate count
D:-Titratable acidity
Correct Answer:- Option-C
- Question52:-Flat or insipid flavour in butter is due to
A:-Excess washing of butter granules
B:-Presence of lactic acid
C:-Presence of salt
D:-Presence of metal ions
Correct Answer:- Option-A
- Question53:-Hydrolytic rancidity in butter is due to
A:-Action of lipase on fat to produce free fatty acids
B:-Oxidation of unsaturated fatty acids
C:-Growth of moulds that convert fatty acids to ketones
D:-Breakdown of proteins by putrefactive organisms
Correct Answer:- Option-A
- Question54:-The prescribed microbiological standard for ice-cream as per Bureau of Indian Standards
A:-Standard Plate Count per gram not more than 2,00,000
B:-Coliform count per gram not more than 90
C:-Standard Plate Count per gram not more than 1,50,000
D:-Coliform count per gram not more than 70
Correct Answer:- Option-B
- Question55:-The optimal temperature for growth of lactic starters like Streptococcus lactis is
A:-20-27°C
B:-27-32°C
C:-32-37°C
D:-37-42°C
Correct Answer:- Option-B
- Question56:-The purity of starter culture can be tested using
A:-Horrell-Elliker test
B:-Creatine test
C:-Resazurin reduction time test
D:-Catalase test
Correct Answer:- Option-D
- Question57:-The type of yoghurt produced after fermentation in bulk and coagulum is broken prior to cooling
A:-Set yoghurt
B:-Stirred yoghurt
C:-Concentrated yoghurt
D:-Dried yoghurt
Correct Answer:- Option-B
- Question58:-The freezing point of cow milk is
A:-0.555°C
B:-0.560°C
C:-0.575°C
D:-0.588°C
Correct Answer:- Option-A

Question59:-The bound water in milk is

- A:-50% held by casein, 30% by albumin and 20% by globulin
- B:-50% held by casein and 50% by albumin and globulin
- C:-50% held by casein and 30% by albumin and globulin
- D:-50% held by casein, 20% by albumin and 30% by globulin

Correct Answer:- Option-C

Question60:-Sandy texture defect in ice-cream is due to

- A:-High lactose
- B:-Temperature fluctuation
- C:-Long storage
- D:-All the above

Correct Answer:- Option-D

Question61:-Which vitamin is essential for the health and normal functioning of epithelial tissue in animal body

- A:-Vitamin A
- B:-Vitamin D
- C:-Vitamin E
- D:-Vitamin K

Correct Answer:- Option-A

Question62:-Which of the following major element is needed for blood clotting and tissue excitability

- A:-Sodium
- B:-Chlorine
- C:-Calcium
- D:-Potassium

Correct Answer:- Option-C

Question63:-An intimate mixture of concentrates and roughages fed to cattle in the desired proportion is called

- A:-Challenge feeding
- B:-Complete feeding
- C:-Least cost feeding
- D:-Phase feeding

Correct Answer:- Option-B

Question64:-Which of the following is essential for proper rumen fermentation leading to acetic acid production

- A:-Fat soluble vitamins
- B:-Water soluble vitamins
- C:-Crude fibre
- D:-Crude fat

Correct Answer:- Option-C

Question65:-The cationic detergent used as an effective dairy sanitizer is

- A:-Bleaching powder
- B:-Quaternary ammonium compounds
- C:-Washing soda
- D:-Caustic soda

Correct Answer:- Option-B

Question66:-Which of the following is a water soluble vitamin

- A:-Vitamin A
- B:-Vitamin C
- C:-Vitamin D
- D:-Vitamin E

Correct Answer:- Option-B

Question67:-Foot and Mouth disease is a

- A:-Bacterial disease
- B:-Fungal disease
- C:-Metabolic disease
- D:-Viral disease

Correct Answer:- Option-D

Question68:-A feed which contains higher level of primary nutrients, and less crude fibre and low moisture is called

- A:-Concentrate
- B:-Pasture
- C:-Legume
- D:-Roughage

Correct Answer:- Option-A

Question69:-Which of the following is not a symptom of heat in dairy cows

- A:-Restlessness
- B:-Mounting other cows
- C:-Bloody discharge from vulva
- D:-Frequent bellowing

Correct Answer:- Option-C

Question70:-The udder of a good dairy cow should be

- A:-Long and narrow
- B:-Symmetrical, round and hard on palpation
- C:-Smooth, well collapsed after milking and pendulous
- D:-Wide and deep, and extend well up behind

Correct Answer:- Option-D

Question71:-The buffalo breed indigenous to Nilgiri hills in Tamilnadu

- A:-Bhadawari
- B:-Toda
- C:-Murrah
- D:-Mehsana

Correct Answer:- Option-B

Question72:-The fat content of milk in general increase in

- A:-Final strippings from the udder
- B:-Indigenous breeds as compared to exotic breeds
- C:-More roughage portion in diet
- D:-All the above

Correct Answer:- Option-D

Question73:-Which method is not recommended in hand milking

- A:-Dry hand milking
- B:-Stripping
- C:-Full hand milking
- D:-Knuckling

Correct Answer:- Option-D

Question74:-The metal portion of the milking machine that houses the rubber liner inside with space between to alternate the pressure by connecting to air hose

- A:-Teat cup shell
- B:-Teat cup claw
- C:-Pulsator
- D:-Bucket

Correct Answer:- Option-A

Question75:-The Indian breed of cattle with long pendulous ears resembling a curled leaf is

- A:-Sahiwal
- B:-Red Sindhi
- C:-Gir
- D:-Deoni

Correct Answer:- Option-C

Question76:-Which is not true with regard to colostrum

- A:-It contains large amounts of gamaglobulins
- B:-It contain more total protein than whole milk
- C:-It contain more fat than whole milk
- D:-It gives a laxative effect

Correct Answer:- Option-C

Question77:-Which of the following exotic cattle breed was not used in the cross-breeding programme in Kerala

- A:-Ayrshire
- B:-Jersey
- C:-Brown Swiss
- D:-Holstein Friesian

Correct Answer:- Option-A

Question78:-The act of stopping the lactation of a cow in preparation for her next lactation is

- A:-Flushing
- B:-Grading up
- C:-Steaming up
- D:-Drying off

Correct Answer:- Option-D

Question79:-Which is the buffalo breed from Uttar pradesh

- A:-Jaffarabadi
- B:-Murrah
- C:-Bhadawari
- D:-Nagpuri

Correct Answer:- Option-C

Question80:-The normal respiration rate per minute in dairy cow is

- A:-15-20
- B:-25-30
- C:-35-40
- D:-55-60

Correct Answer:- Option-B

Question81:-When the steam contains moisture in suspension, it is called

- A:-Dry saturated steam
- B:-Dry steam
- C:-Wet steam
- D:-Super heated steam

Correct Answer:- Option-C

Question82:-Which of the following is false with regard to a refrigerant

- A:-Refrigerant should not decompose at any temperature normally encountered
- B:-Refrigerant should posses high thermal conductivity
- C:-The electrical resistance of a refrigerant is important
- D:-Liquid and vapour refrigerant should have high viscosity

Correct Answer:- Option-D

Question83:-A large increase in deposit formation during milk processing can be expected

- A:-If preheating milk to temperatures between 65-90°C
- B:-If building up a back pressure
- C:-If β -lactoglobulin is added
- D:-If pH value is lowered from 6.8 to 6.4

Correct Answer:- Option-D

Question84:-The type of corrosion that occurs when two different metals are in contact in the presence of a conductive solution

- A:-Pitting corrosion
- B:-Inter-granular corrosion
- C:-Galvanic corrosion
- D:-Crevice corrosion

Correct Answer:- Option-C

Question85:-Which of the following packaging material can be used in a wide temperature range of -50°C to +150°C and has impermeability to odours

- A:-Polyester
- B:-Polyamide
- C:-Polythene
- D:-Polycarbonate

Correct Answer:- Option-A

Question86:-The type of evaporation in which the process cost is reduced by reducing the steam consumption

- A:-Multiple effect evaporator
- B:-Plate evaporator
- C:-Circulation evaporator
- D:-Horizontal tube evaporator

Correct Answer:- Option-A

Question87:-Which of the following is not true in the case of drum drying

- A:-Drum drying requires less space than spray drying
- B:-The flavour of the product is not affected by drum drying
- C:-Alloy steel and nickel plate steel can be used as a material of construction
- D:-The solubility of the product is much lower in drum drying

Correct Answer:- Option-B

Question88:-The storage temperature needed for Cheddar cheese is

- A:-1°C
- B:-4°C
- C:-20°C

D:-26°C

Correct Answer:- Option-A

Question89:-The minimum level of illumination required in the laboratory of a dairy plant

A:-20 W/m²

B:-29 W/m²

C:-13 W/m²

D:-41 W/m²

Correct Answer:- Option-D

Question90:-The insulating material known as super insulation in air conditioning industry which can be used for a temperature range of -200°C to +120°C

A:-Fibre glass

B:-Foam glass

C:-Magnesia

D:-Urethane

Correct Answer:- Option-D

Question91:-The average air change in meters per change required for good ventilation in dairy processing rooms

A:-1-3

B:-2-5

C:-6-10

D:-none of the above

Correct Answer:- Option-B

Question92:-Which is not true with regard to Casein

A:-The main sugar in casein is sialic acid

B:-Casein contains all essential amino acids

C:- α and β casein are soluble at isoelectric point

D:-Casein contains 0.78% sulphur

Correct Answer:- Option-C

Question93:-Which is not true in case of hydrolyzed lactose

A:-The solubility of hydrolyzed lactose increases up to 60 g/100 ml of water

B:-Hydrolyzed lactose is a syrup with a dry matter content of about 70 percent

C:-Hydrolysis of lactose decreases its sweetening power by almost two times

D:-There will be more browning in use of hydrolyzed lactose

Correct Answer:- Option-C

Question94:-Which of the following method is not used in determining the lactose content

A:-Polarimetric method

B:-Chromatographic method

C:-Rose-Gottlieb method

D:-Picric acid method

Correct Answer:- Option-C

Question95:-The Central Institute for research on cattle is located in

A:-Meerut

B:-Lucknow

C:-Avikanagar

D:-Karnal

Correct Answer:- Option-A

Question96:-Indian Grassland and Fodder research institute is located in

A:-Hyderabad

B:-Nagpur

C:-Jhansi

D:-Lucknow

Correct Answer:- Option-C

Question97:-The audio autobiography of Dr. Varghese Kurien

A:-The man who made the Elephant dance

B:-I too had a dream

C:-An unfinished dream

D:-The Man with the billion litre idea

Correct Answer:- Option-A

Question98:-The deficiency of which of the trace mineral can lead to anaemia

A:-Iron

B:-Copper

C:-Cobalt

D:-All the above

Correct Answer:- Option-D

Question99:-Which of the following hormone provide the stimulus which lead to parturition

A:-Prolactin

B:-Progesterone

C:-Cortisol

D:-Thyroxine

Correct Answer:- Option-C

Question100:-The floor space required for a cow in the covered area of a loose house

A:-12 m²

B:-8.5 m²

C:-5 m²

D:-3.5 m²

Correct Answer:- Option-D