

National Testing Agency

Question Paper Name :	Food Safety and Quality Assurance 17th September Shift 2
Subject Name :	Food Safety and Quality Assurance
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Food Safety and Quality Assurance

Group Number :	1
Group Id :	190889111
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

Part A: General Knowledge

Section Id :	190889257
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889297
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 19088912622 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the device used to measure the power and speed of the wind?

1. Avometer
2. Anemometer
3. Airometer
4. Aviontimeter

Options :

19088950381. 1
19088950382. 2
19088950383. 3
19088950384. 4

Question Number : 2 Question Id : 19088912623 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Optical fibre used the concept of which of the following?

1. Reflection
2. Refraction
3. Total internal reflection
4. Total internal refraction

Options :

19088950385. 1

19088950386. 2

19088950387. 3

19088950388. 4

Question Number : 3 Question Id : 19088912624 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Yellow vein mosaic is the viral disease of which of the following plants?

1. Ladyfinger
2. Papaya
3. Sugarcane
4. Banana

Options :

19088950389. 1

19088950390. 2

19088950391. 3

19088950392. 4

Question Number : 4 Question Id : 19088912625 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following organ(s) is affected by Mumps disease?

1. Entire body
2. Skin
3. Eye
4. Parotid

Options :

19088950393. 1

19088950394. 2

19088950395. 3

19088950396. 4

Question Number : 5 Question Id : 19088912626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the chemical name of vitamin B₂?

1. Riboflavin
2. Calciferol
3. Pyridoxin
4. Niacin

Options :

19088950397. 1

19088950398. 2

19088950399. 3

19088950400. 4

Question Number : 6 Question Id : 19088912627 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is not the input unit of the computer?

1. Mouse
2. Keyboard
3. Screen
4. Scanner

Options :

19088950401. 1

19088950402. 2

19088950403. 3

19088950404. 4

Question Number : 7 Question Id : 19088912628 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The digital computer operates on which of the following principle?

1. Measurement
2. Calculation
3. Logical
4. Electrification

Options :

19088950405. 1

19088950406. 2

19088950407. 3

19088950408. 4

Question Number : 8 Question Id : 19088912629 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The non-cooperation movement of Gandhiji was launched in which of the following year?

1. 1915
2. 1922
3. 1920
4. 1930

Options :

19088950409. 1

19088950410. 2

19088950411. 3

19088950412. 4

Question Number : 9 Question Id : 19088912630 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

An Islamic revivalist movement named Wahabi movement was founded by which of the following person?

1. Sian Saheb
2. Syed Ahmed
3. Haji Shariat-Allah
4. DaduMian

Options :

19088950413. 1

19088950414. 2

19088950415. 3

19088950416. 4

**Question Number : 10 Question Id : 19088912631 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following is considered as the “Magna Carta of England Education in India”?

1. Hunter education commission
2. Lord Macaulay’s Minute
3. Wood’s Despatch
4. Thomas Babington Macaulay

Options :

19088950417. 1

19088950418. 2

19088950419. 3

19088950420. 4

**Question Number : 11 Question Id : 19088912632 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following nutrient does not come under the ambit of 'macro-nutrients in Soil Health Card?

1. Nitrogen
2. Zinc
3. Phosphorous
4. Potassium

Options :

19088950421. 1

19088950422. 2

19088950423. 3

19088950424. 4

Question Number : 12 Question Id : 19088912633 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Cole crops, root crops and legumes come under the ambit of which of the following?

1. Olericulture
2. Pomology
3. Viticulture
4. Arboriculture

Options :

19088950425. 1

19088950426. 2

19088950427. 3

19088950428. 4

Question Number : 13 Question Id : 19088912634 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The study of individual trees, shrubs, vines, and perennial woody plants is known as which of the following?

1. Turf management
2. Arboriculture
3. Pomology
4. Viticulture

Options :

19088950429. 1

19088950430. 2

19088950431. 3

19088950432. 4

Question Number : 14 Question Id : 19088912635 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The ministry is implementing MIDH (Mission for Integrated Development of Horticulture) with effect from which of the following year?

1. 2012-13
2. 2019-20
3. 2015-16
4. 2014-15

Options :

19088950433. 1

19088950434. 2

19088950435. 3

19088950436. 4

Question Number : 15 Question Id : 19088912636 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The interaction of soils with living things, particularly plants are well known as which of the following?

1. Edaphology
2. Pedology
3. Soil zoology
4. Pedogenesis

Options :

19088950437. 1

19088950438. 2

19088950439. 3

19088950440. 4

Question Number : 16 Question Id : 19088912637 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following systems has also incorporated social aspects in itself?

1. Landscaping
2. Permaculture
3. Horticulture
4. Forest gardening

Options :

19088950441. 1

19088950442. 2

19088950443. 3

19088950444. 4

Question Number : 17 Question Id : 19088912638 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What do you term the phenomenon whereby the specific gene is added to the plant for producing a desirable phenotype?

1. Genetic manipulation
2. Genetic recombination
3. Genetic modification
4. Genetic hybridisation

Options :

19088950445. 1

19088950446. 2

19088950447. 3

19088950448. 4

**Question Number : 18 Question Id : 19088912639 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

What is the focus of the participatory plant breeding program?

1. Scientists
2. Plants
3. Environment
4. Farmers

Options :

19088950449. 1

19088950450. 2

19088950451. 3

19088950452. 4

**Question Number : 19 Question Id : 19088912640 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

How do you term the form of agriculture, in which, industrialized production of crops and animal products takes place?

1. Manufactured agriculture
2. Modern agriculture
3. Industrial agriculture
4. Mechanistic agriculture

Options :

19088950453. 1

19088950454. 2

19088950455. 3

19088950456. 4

**Question Number : 20 Question Id : 19088912641 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Micro-irrigation fund of Rs. 5,000 crore has been placed with which of the following organization?

1. NABARD
2. IDBI
3. SBI
4. RRBs

Options :

19088950457. 1

19088950458. 2

19088950459. 3

19088950460. 4

Part B Core : Dairy Science : Dairy Technology & Food Technology

Section Id : 190889258

Section Number : 2

Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889298
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 19088912642 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

The casein fraction which has maximum carbohydrates associated with it is _____.

- | | |
|-----------|-----------|
| (1) Alpha | (2) Beta |
| (3) Kappa | (4) Gamma |

Options :

- 19088950461. 1
- 19088950462. 2
- 19088950463. 3
- 19088950464. 4

Question Number : 22 Question Id : 19088912643 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

What is the proportion in which buffalo milk with 6.5% fat and low fat milk with 0.5% fat are to be combined in order to produce mixed milk conforming to standardized milk fat standards?

- | | |
|-----------|-----------|
| (1) 1 : 1 | (2) 2 : 1 |
| (3) 1 : 2 | (4) 1 : 3 |

Options :

- 19088950465. 1
- 19088950466. 2
- 19088950467. 3
- 19088950468. 4

Question Number : 23 Question Id : 19088912644 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The environmental management of a dairy plant is denoted by the ISO series _____.

- | | |
|-----------|-----------|
| (1) 9000 | (2) 11000 |
| (3) 14000 | (4) 22000 |

Options :

- 19088950469. 1
- 19088950470. 2
- 19088950471. 3
- 19088950472. 4

Question Number : 24 Question Id : 19088912645 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(A) Fat in infant food	(I) 10%
(B) Fat in table cream	(II) 19%
(C) Fat in condensed milk	(III) 20%
(D) Fat in ice cream	(IV) 9%

Choose the correct answer from the options given below :

- (1) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)
- (2) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- (3) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (4) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

Options :

19088950473. 1

19088950474. 2

19088950475. 3

19088950476. 4

**Question Number : 25 Question Id : 19088912646 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Deficiency of calcium in the diet leads to

(1) Goitre

(2) Anemia

(3) Osteoporosis

(4) Rickets

Options :

19088950477. 1

19088950478. 2

19088950479. 3

19088950480. 4

**Question Number : 26 Question Id : 19088912647 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

_____ is an example of a medical food.

(1) Sports drinks

(2) Symbiotic yoghurt

(3) Flavoured dairy drink

(4) Lactose hydrolysed milk

Options :

19088950481. 1

19088950482. 2

19088950483. 3

19088950484. 4

Question Number : 27 Question Id : 19088912648 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The antimicrobial protein found in milk is

- | | |
|-----------------------|----------------------------|
| (1) Glycomacropeptide | (2) Lactoferrin |
| (3) MGF protein | (4) β -Lactoglobulin |

Options :

19088950485. 1

19088950486. 2

19088950487. 3

19088950488. 4

Question Number : 28 Question Id : 19088912649 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The protein content in retentate can be further increased using

- | | |
|---------------------|---------------------|
| (1) Diafiltration | (2) Nanofiltration |
| (3) Microfiltration | (4) Reverse osmosis |

Options :

19088950489. 1

19088950490. 2

19088950491. 3

19088950492. 4

Question Number : 29 Question Id : 19088912650 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Elimination of _____ by removing the gene from cow milk by transgenesis may improve the problem of cow milk allergy in children.

- | | |
|---------------------------|----------------------------|
| (1) β -Casein | (2) Lactose |
| (3) α -Lactalbumin | (4) β -Lactoglobulin |

Options :

- 19088950493. 1
- 19088950494. 2
- 19088950495. 3
- 19088950496. 4

Question Number : 30 Question Id : 19088912651 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : It is, in general difficult to stabilize a water in oil emulsion.

Reason (R) : Charge effects are not applicable and only steric stabilization is possible in W/O emulsions.

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

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (3) (A) is true but (R) is false
- (4) (A) is false but (R) is true

Options :

- 19088950497. 1
- 19088950498. 2
- 19088950499. 3
- 19088950500. 4

Question Number : 31 Question Id : 19088912652 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which among the following is an example of sparkling wine?

- | | |
|---------------|--------------|
| (1) Port Wine | (2) Sherry |
| (3) Champagne | (4) Red wine |

Options :

19088950501. 1

19088950502. 2

19088950503. 3

19088950504. 4

Question Number : 32 Question Id : 19088912653 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Maximum heat damage occur during the _____ of drying.

- | | |
|-------------------------|--------------------------|
| (1) Falling Rate Period | (2) Constant Rate Period |
| (3) Come-up Period | (4) Post drying stage |

Options :

19088950505. 1

19088950506. 2

19088950507. 3

19088950508. 4

Question Number : 33 Question Id : 19088912654 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which among the following is absent in cocoa butter?

- | | |
|-------------------|-----------------|
| (1) Palmitic acid | (2) Oleic acid |
| (3) Stearic acid | (4) Lauric acid |

Options :

19088950509. 1

19088950510. 2

19088950511. 3

19088950512. 4

**Question Number : 34 Question Id : 19088912655 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which among the following is the reduced form of myoglobin?

- | | |
|--------------------------|--------------------|
| (1) Oxymyoglobin | (2) Metmyoglobin |
| (3) Oxygenated myoglobin | (4) Deoxymyoglobin |

Options :

19088950513. 1

19088950514. 2

19088950515. 3

19088950516. 4

**Question Number : 35 Question Id : 19088912656 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Extensive heating of starchy rich food material may leads to the formation of _____.

- | | |
|----------------------|-----------------|
| (1) Resistant starch | (2) Histamine |
| (3) Acrylamide | (4) Waxy starch |

Options :

19088950517. 1

19088950518. 2

19088950519. 3

19088950520. 4

Question Number : 36 Question Id : 19088912657 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which among the following is not a reconstitution property of milk powder?

- | | |
|-------------------|--------------------|
| (1) Sinkability | (2) Wettability |
| (3) Agglomeration | (4) Dispersibility |

Options :

19088950521. 1

19088950522. 2

19088950523. 3

19088950524. 4

Question Number : 37 Question Id : 19088912658 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(A) Malolactic Fermentation	(I) Bread
(B) Pitching	(II) Wine
(C) Dextrinization	(III) Meat
(D) Stunning	(IV) Beer

Choose the correct answer from the options given below :

- (1) (A)-(IV), (B)-(I), (C)-(III), (D)-(II)
- (2) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (3) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
- (4) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

Options :

19088950525. 1

19088950526. 2

19088950527. 3

19088950528. 4

Question Number : 38 Question Id : 19088912659 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : Cake flour is often subjected to chlorination to improve the quality of cake.

Reason (R) : Chlorination bleaches the carotenoids of wheat flour, and impart whiteness. It also oxidizes flour starch which swells more on gelatinization.

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

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (3) (A) is true but (R) is false
- (4) (A) is false but (R) is true

Options :

19088950529. 1

19088950530. 2

19088950531. 3

19088950532. 4

Question Number : 39 Question Id : 19088912660 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : Fruits like mango are exposed to Vapour Heat Treatment (VHT) before export as quarantine measure.

Reason (R) : Exposure to vapour check the biosynthesis of ethylene and thus inhibit ripening process.

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

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (3) (A) is true but (R) is false
- (4) (A) is false but (R) is true

Options :

19088950533. 1

19088950534. 2

19088950535. 3

19088950536. 4

Question Number : 40 Question Id : 19088912661 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Food emulsions exhibits _____ type of rheological behaviour.

- | | |
|--------------------|----------------------|
| (1) Newtonian | (2) Rheopectic |
| (3) Shear thinning | (4) Shear thickening |

Options :

19088950537. 1

19088950538. 2

19088950539. 3

19088950540. 4

Question Number : 41 Question Id : 19088912662 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Average Magnesium (Mg) content of raw milk is about

- | | |
|-------------------|--------------------|
| (1) 1.2 mg/100 ml | (2) 12 mg/100 ml |
| (3) 120 mg/100 ml | (4) 0.12 mg/100 ml |

Options :

19088950541. 1

19088950542. 2

19088950543. 3

19088950544. 4

Question Number : 42 Question Id : 19088912663 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Volumetric method for detection of lactose in milk

- | | |
|-------------------------|---------------------------|
| (1) Lane-Eynon Method | (2) Werner-Schimdt Method |
| (3) Polarimetric Method | (4) Rose-Gottleib Method |

Options :

19088950545. 1

19088950546. 2

19088950547. 3

19088950548. 4

Question Number : 43 Question Id : 19088912664 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Crude protein content of milk and milk product is calculated by multiplying nitrogen content with factor

- | | |
|----------|----------|
| (1) 6.25 | (2) 6.38 |
| (3) 6.30 | (4) 5.75 |

Options :

19088950549. 1

19088950550. 2

19088950551. 3

19088950552. 4

**Question Number : 44 Question Id : 19088912665 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Vacreation refers to

- | | |
|---------------------------|--------------------------|
| (1) Vaccum packaging | (2) Vaccum sterilization |
| (3) Vaccum pasteurization | (4) Vacuum creation |

Options :

19088950553. 1

19088950554. 2

19088950555. 3

19088950556. 4

**Question Number : 45 Question Id : 19088912666 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

For selection of wavelength, spectrophotometer uses :

- | | |
|-------------------|----------------|
| (1) Processor | (2) Transducer |
| (3) Monochromator | (4) Slit |

Options :

19088950557. 1

19088950558. 2

19088950559. 3

19088950560. 4

Question Number : 46 Question Id : 19088912667 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Following product exhibit maximum heat induced changes

- | | |
|------------------------------|---------------------|
| (1) Sweetened Condensed Milk | (2) Evaporated milk |
| (3) Khoa | (4) Milk Powder |

Options :

19088950561. 1

19088950562. 2

19088950563. 3

19088950564. 4

Question Number : 47 Question Id : 19088912668 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Casein : Fat ratio is adjusted in cheese milk to

- | | |
|-----------------|-----------------|
| (1) 0.45 – 0.60 | (2) 0.68 – 0.70 |
| (3) 0.68 – 0.80 | (4) 0.60 – 0.70 |

Options :

19088950565. 1

19088950566. 2

19088950567. 3

19088950568. 4

Question Number : 48 Question Id : 19088912669 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

During cheese making enzyme rennet acts on

- | | |
|--------------------------|---------------------|
| (1) αS_1 -Casein | (2) β -Casein |
| (3) αS_2 -Casein | (4) K-Casein |

Options :

19088950569. 1

19088950570. 2

19088950571. 3

19088950572. 4

**Question Number : 49 Question Id : 19088912670 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

For which of the water soluble vitamin milk is the only source for vegetarians

- | | |
|----------------|--------------------|
| (1) Folic acid | (2) Cyanocobalamin |
| (3) Thiamin | (4) Biotin |

Options :

19088950573. 1

19088950574. 2

19088950575. 3

19088950576. 4

**Question Number : 50 Question Id : 19088912671 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

As per FSSAI, 2006, maximum free fatty acid content (% oleic acid) in ghee is

- | | |
|----------|----------|
| (1) 1.5% | (2) 3% |
| (3) 2.5% | (4) 3.5% |

Options :

19088950577. 1

19088950578. 2

19088950579. 3

19088950580. 4

Question Number : 51 Question Id : 19088912672 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The area of pipe at section XX' is 315 cm^2 . The area of pipe at section YY' is twice the area of section XX'. The velocity at section XX' is 4.5 m/sec . Find the velocity at section YY'. Also determine flow rate through the pipe.

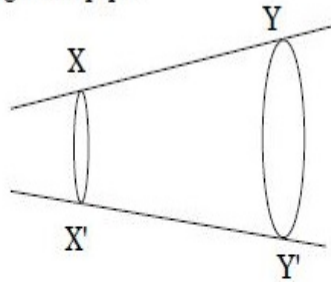


Fig. 1

- (1) $V = 2.25 \text{ m/sec}$, $Q = 0.14175 \text{ m}^3/\text{sec}$
- (2) $V = 22.25 \text{ m/sec}$, $Q = 0.14175 \text{ m}^3/\text{sec}$
- (3) $V = 2.25 \text{ m/sec}$, $Q = 1.4175 \text{ m}^3/\text{sec}$
- (4) $V = 22.25 \text{ m/sec}$, $Q = 1.4175 \text{ m}^3/\text{sec}$

Options :

19088950581. 1

19088950582. 2

19088950583. 3

19088950584. 4

Question Number : 52 Question Id : 19088912673 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The thermal conductivity of frozen food is _____ than foods at normal temperature.

- | | |
|-----------|---------------------|
| (1) Lower | (2) Higher |
| (3) Same | (4) Can not predict |

Options :

19088950585. 1

19088950586. 2

19088950587. 3

19088950588. 4

Question Number : 53 Question Id : 19088912674 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following arrangement could eliminate the use of pump between effects in evaporation?

- | | |
|------------------|----------------------------------|
| (1) Forward feed | (2) Backward feed |
| (3) Mixed feed | (4) Its theoretically impossible |

Options :

19088950589. 1

19088950590. 2

19088950591. 3

19088950592. 4

Question Number : 54 Question Id : 19088912675 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Ingress of oxygen into the package _____.

- (1) Decrease the activities of the enzymes
- (2) Increase the activities of the enzyme
- (3) No change in the activities of the enzyme
- (4) Initially increase followed by decrease in enzyme activity

Options :

19088950593. 1

19088950594. 2

19088950595. 3

19088950596. 4

Question Number : 55 Question Id : 19088912676 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The heating mechanism of microwave processing is

- | | |
|------------------------|----------------------|
| (1) Dipole rotation | (2) Infrared heating |
| (3) Ionic polarization | (4) Both (1) and (3) |

Options :

19088950597. 1

19088950598. 2

19088950599. 3

19088950600. 4

Question Number : 56 Question Id : 19088912677 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The water sorption by a food is independent of _____ .

- | | |
|------------------------------------|---|
| (1) Composition | (2) Physico-chemical state of ingredients |
| (3) Physical structure of the food | (4) Exposure to light |

Options :

19088950601. 1

19088950602. 2

19088950603. 3

19088950604. 4

Question Number : 57 Question Id : 19088912678 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In shell and tube heat exchange the tube, which carry milk through it, should be made up of

- | | |
|---------------------|------------|
| (1) Aluminium | (2) Copper |
| (3) Stainless Steel | (4) Iron |

Options :

- 19088950605. 1
- 19088950606. 2
- 19088950607. 3
- 19088950608. 4

Question Number : 58 Question Id : 19088912679 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The HTST process involves heating milk to

- | | |
|---------------------|-----------------------|
| (1) 62°C for 30 min | (2) 72°C for 15 sec |
| (3) 65°C for 15 min | (4) 100°C for < 1 sec |

Options :

- 19088950609. 1
- 19088950610. 2
- 19088950611. 3
- 19088950612. 4

Question Number : 59 Question Id : 19088912680 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is known as heart of the vapour compression refrigeration system?

- | | |
|---------------|----------------|
| (1) Condenser | (2) Evaporator |
| (3) Receiver | (4) Compressor |

Options :

- 19088950613. 1
- 19088950614. 2
- 19088950615. 3
- 19088950616. 4

Question Number : 60 Question Id : 19088912681 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the full form of PLC?

- | | |
|--------------------------------|-------------------------------|
| (1) Programmable Logo Control | (2) Preventable Logic Control |
| (3) Programmable Logic Control | (4) Processed Linear Control |

Options :

19088950617. 1

19088950618. 2

19088950619. 3

19088950620. 4

Question Number : 61 Question Id : 19088912682 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Two agreement which are coming into force after Uruguay sound of multilateral Trade Negotiations are

- (A) TBT and SPS
- (B) TRIPS and SPS
- (C) GATT and WTO
- (D) TBT and GATT

Choose the most appropriate answer from the options given below :

- (1) (A) only
- (2) (B) only
- (3) (C) only
- (4) (D) only

Options :

19088950621. 1

19088950622. 2

19088950623. 3

19088950624. 4

Question Number : 62 Question Id : 19088912683 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A failure to meet quality requirement is known as

- (A) Conformity
- (B) Observation
- (C) Non-conformity
- (D) Unsatisfactory

Choose the most appropriate answer from the options given below :

- (1) (A) only
- (2) (B) only
- (3) (C) only
- (4) (D) only

Options :

19088950625. 1

19088950626. 2

19088950627. 3

19088950628. 4

Question Number : 63 Question Id : 19088912684 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Faecal Indicator of milk is

- | | |
|----------------|---------------------------|
| (1) Coliforms | (2) Escherichia coli |
| (3) Salmonella | (4) Enterococcus faecalis |

Options :

19088950629. 1

19088950630. 2

19088950631. 3

19088950632. 4

Question Number : 64 Question Id : 19088912685 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Father of Medical Microbiology

- | | |
|-------------------|--------------------------|
| (1) Louis Pasteur | (2) Joseph Lister |
| (3) Robert Koch | (4) Anton Von Leewanhook |

Options :

19088950633. 1

19088950634. 2

19088950635. 3

19088950636. 4

Question Number : 65 Question Id : 19088912686 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ISO Standard for Food Safety is

- | | |
|---------------|---------------|
| (1) ISO 9001 | (2) ISO 22000 |
| (3) ISO 14001 | (4) ISO 17025 |

Options :

19088950637. 1

19088950638. 2

19088950639. 3

19088950640. 4

Question Number : 66 Question Id : 19088912687 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Common activity test used for starter culture

- (A) Microscopic examination
- (B) Horrel Elliker test
- (C) Morphological examination
- (D) Growth on medium

Choose the most appropriate answer from the options given below :

- (1) (A) only
- (2) (B) only
- (3) (C) only
- (4) (D) only

Options :

19088950641. 1

19088950642. 2

19088950643. 3

19088950644. 4

**Question Number : 67 Question Id : 19088912688 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Father of Biosensor is

- (A) Leoland C Clark
- (B) Leoland F Clark
- (C) Biacore
- (D) Ferland

Choose the most appropriate answer from the options given below :

- (1) (A) only
- (2) (B) only
- (3) (C) only
- (4) (D) only

Options :

- 19088950645. 1
- 19088950646. 2
- 19088950647. 3
- 19088950648. 4

Question Number : 68 Question Id : 19088912689 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the diseases are caused by *Coxiella burnetii*?

- (A) Tuberculosis
- (B) Brucellosis
- (C) 'Q' fever
- (D) Malta fever

Choose the most appropriate answer from the options given below

- (1) (A) only
- (2) (B) only
- (3) (C) only
- (4) (D) only

Options :

- 19088950649. 1
- 19088950650. 2
- 19088950651. 3
- 19088950652. 4

Question Number : 69 Question Id : 19088912690 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Eijkmen test is used for the detection of

- (A) Coliforms
- (B) Coliphages
- (C) E. coli
- (D) Enterococci

Choose the most appropriate answer from the options given below :

- (1) (A) only
- (2) (B) only
- (3) (C) only
- (4) (D) only

Options :

19088950653. 1

19088950654. 2

19088950655. 3

19088950656. 4

Question Number : 70 Question Id : 19088912691 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Pathogenic bacteria major concern in sweetened condensed milk

- (A) E. coli
- (B) Listeria monocytogenes
- (C) Staphylococcus aureus
- (D) Campylobacter jejuni

Choose the most appropriate answer from the options given below :

- (1) (A) only
- (2) (B) only
- (3) (C) only
- (4) (D) only

Options :

19088950657. 1

19088950658. 2

19088950659. 3

19088950660. 4

Part C : Food Safety and Quality Assurance

Section Id :	190889259
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889299
Question Shuffling Allowed :	Yes

Question Number : 71 Question Id : 19088912692 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Gray mold rot in vegetables is caused by

- | | |
|--------------|-----------------|
| (1) Erwinia | (2) Pseudomonas |
| (3) Botrytis | (4) Xanthomonas |

Options :

19088950661. 1

19088950662. 2

19088950663. 3

19088950664. 4

Question Number : 72 Question Id : 19088912693 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Mold button formation in sweetened condensed milk is due to

- (1) Aspergillus flavus
- (2) Geotrichum candidum
- (3) Aspergillus repens
- (4) Candida lipolytica

Options :

19088950665. 1

19088950666. 2

19088950667. 3

19088950668. 4

Question Number : 73 Question Id : 19088912694 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Food safety and standard act was notified on

- | | |
|----------------------------------|----------------------------------|
| (1) 23 rd August 2008 | (2) 23 rd August 2006 |
| (3) 23 rd August 2005 | (4) 23 rd August 2007 |

Options :

- 19088950669. 1
- 19088950670. 2
- 19088950671. 3
- 19088950672. 4

Question Number : 74 Question Id : 19088912695 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Most commonly used dye in gel electrophoresis of protein is

- | | |
|------------------------------|------------------------------------|
| (1) Amido Black | (2) Fluorescein dye |
| (3) Coomassie brilliant blue | (4) 2, 6-Dichlorophenol Indophenol |

Options :

- 19088950673. 1
- 19088950674. 2
- 19088950675. 3
- 19088950676. 4

Question Number : 75 Question Id : 19088912696 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Sephadex used in gel filtration technique is cross linked product of

- | | |
|--------------|------------------------------|
| (1) Dextrans | (2) Carboxy methyl cellulose |
| (3) Starch | (4) Pectin |

Options :

19088950677. 1

19088950678. 2

19088950679. 3

19088950680. 4

Question Number : 76 Question Id : 19088912697 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Lactose content in Yoghurt is about

(1) 1.5%

(2) 3%

(3) 2%

(4) < 1%

Options :

19088950681. 1

19088950682. 2

19088950683. 3

19088950684. 4

Question Number : 77 Question Id : 19088912698 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Iodine value is a measure of

(1) Short chain fatty acid

(2) Volatile fatty acid

(3) Unsaturated fatty acids

(4) Saturated fatty acid

Options :

19088950685. 1

19088950686. 2

19088950687. 3

19088950688. 4

Question Number : 78 Question Id : 19088912699 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following enzyme is not present in E. Coli 0157 : 47?

- (1) β -Galactosidase
- (2) α -Galactosidase
- (3) β -D-Glucuronidase
- (4) β -D-Glucosidase

Options :

19088950689. 1

19088950690. 2

19088950691. 3

19088950692. 4

Question Number : 79 Question Id : 19088912700 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Predominant form of Vitamin B₆ in bovine milk is

- | | |
|------------------|----------------------------|
| (1) Pyridoxamine | (2) Pyridoxal phosphate |
| (3) Pyridoxal | (4) Pyridoxamine Phosphate |

Options :

19088950693. 1

19088950694. 2

19088950695. 3

19088950696. 4

Question Number : 80 Question Id : 19088912701 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Ratio of Casein : Whey protein in human milk is

- | | |
|-------------|-------------|
| (1) 50 : 50 | (2) 40 : 60 |
| (3) 60 : 40 | (4) 80 : 20 |

Options :

- 19088950697. 1
- 19088950698. 2
- 19088950699. 3
- 19088950700. 4

Question Number : 81 Question Id : 19088912702 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Peroxide value is a measure of

- | | |
|--------------------------|-------------------------|
| (1) Hydrolytic Rancidity | (2) Unsaturation of fat |
| (3) Oxidative Rancidity | (4) Saturation of fat |

Options :

- 19088950701. 1
- 19088950702. 2
- 19088950703. 3
- 19088950704. 4

Question Number : 82 Question Id : 19088912703 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following mineral is present in highest concentration in cow milk?

- | | |
|-------------|----------------|
| (1) Sodium | (2) Potassium |
| (3) Calcium | (4) Phosphorus |

Options :

- 19088950705. 1

19088950706. 2

19088950707. 3

19088950708. 4

Question Number : 83 Question Id : 19088912704 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Guillain Baire Syndrome is associated with

(1) *Campylobacter jejuni*

(2) *Campylobacter coli*

(3) *Vibrio vulnificus*

(4) *Vibrio fischerii*

Options :

19088950709. 1

19088950710. 2

19088950711. 3

19088950712. 4

Question Number : 84 Question Id : 19088912705 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The most implicated serotype of *Listeria monocytogenes* involved in human Listeriosis is

(1) $\frac{1}{2a}$

(2) $\frac{1}{2b}$

(3) 4 b

(4) 4 c

Options :

19088950713. 1

19088950714. 2

19088950715. 3

19088950716. 4

Question Number : 85 Question Id : 19088912706 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Growth Medium used in the Enumeration of Enterobacteriaceae in milk is

- | | |
|----------------------------------|----------------------------------|
| (1) Violet Red Bile Lactose Agar | (2) Violet Red Bile Glucose Agar |
| (3) Violet Red Bile Salicin agar | (4) Violet Red Bile Sorbate Agar |

Options :

19088950717. 1

19088950718. 2

19088950719. 3

19088950720. 4

Question Number : 86 Question Id : 19088912707 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A zero value of T in spectroscopic technique represent

- | | |
|------------------------------------|------------------------------------|
| (1) A totally transparent solution | (2) A totally opaque solution |
| (3) A totally colloidal solution | (4) A totally colloidal suspension |

Options :

19088950721. 1

19088950722. 2

19088950723. 3

19088950724. 4

Question Number : 87 Question Id : 19088912708 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Wavelength of visible and ultraviolet spectrum lies between

- (1) 200 – 400 nm
- (2) 400 – 800 nm
- (3) 200 – 800 nm
- (4) 400 – 600 nm

Options :

19088950725. 1

19088950726. 2

19088950727. 3

19088950728. 4

Question Number : 88 Question Id : 19088912709 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

FSSAI regulations on Aflatoxin in Food is

- (1) 0.05 ppb
- (2) 0.5 ppb
- (3) 5 ppb
- (4) 20 ppb

Options :

19088950729. 1

19088950730. 2

19088950731. 3

19088950732. 4

Question Number : 89 Question Id : 19088912710 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Enzyme used in the identification of Genus Bifidobacter

- (1) F-1-6 Phosphate phosphoketolase
- (2) F-6-Phosphate phosphoketolase
- (3) F-6-Phosphate phosphoaldolase
- (4) F-6-Phosphatase

Options :

19088950733. 1

19088950734. 2

19088950735. 3

19088950736. 4

Question Number : 90 Question Id : 19088912711 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Source lamp that covers entire UV-Visible wavelength is

- (1) Tungsten lamp
- (2) Deuterium lamp
- (3) Halogen lamp
- (4) Xenon arc lamp

Options :

19088950737. 1

19088950738. 2

19088950739. 3

19088950740. 4

Question Number : 91 Question Id : 19088912712 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(A) <i>Staphylococcus aureus</i>	(I) Haemolytic Uremic Syndrome
(B) <i>Listeria monocytogenes</i>	(II) Emesis
(C) <i>Bacillus cereus</i>	(III) Meningitis
(D) <i>E.coli</i> 0157 : H7	(IV) Toxic Syndrome

Choose the correct answer from the options given below :

- (1) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (2) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (3) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (4) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

Options :

- 19088950741. 1
- 19088950742. 2
- 19088950743. 3
- 19088950744. 4

Question Number : 92 Question Id : 19088912713 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Microbiological standards are

- | | |
|------------------------------------|----------------------------|
| (1) Advisory | (2) Mandatory |
| (3) Neither advisory Nor Mandatory | (4) Advisory and Mandatory |

Options :

- 19088950745. 1
- 19088950746. 2
- 19088950747. 3

19088950748. 4

Question Number : 93 Question Id : 19088912714 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Control of lypolytic psychrotrophs in Butter from water contamination can be done by

- (1) Hypochlorination
- (2) Hyperchlorination
- (3) Personnel Hygiene
- (4) Stored at Hygienic condition

Options :

19088950749. 1

19088950750. 2

19088950751. 3

19088950752. 4

Question Number : 94 Question Id : 19088912715 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The Salmonella isolation and identification in milk products will be carried as per

- | | |
|--------------------------------|-----------------------------|
| (1) 3-Class Sampling plan | (2) 2-Class Sampling plan |
| (3) 2 or 3 Class Sampling plan | (4) Attribute Sampling plan |

Options :

19088950753. 1

19088950754. 2

19088950755. 3

19088950756. 4

Question Number : 95 Question Id : 19088912716 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

How many milliliters of concentrated sulfuric acid 35N (density 1.831 g/cm³) are required to prepare 1 lit of 0.1 M solution?

- | | |
|-------------|-------------|
| (1) 7.51 ml | (2) 5.71 ml |
| (3) 6.23 ml | (4) 5.03 ml |

Options :

19088950757. 1

19088950758. 2

19088950759. 3

19088950760. 4

Question Number : 96 Question Id : 19088912717 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which constituent of milk exist in colloidal as well as true solution?

- | | |
|------------|-------------|
| (1) Casein | (2) Salt |
| (3) Fat | (4) Lactose |

Options :

19088950761. 1

19088950762. 2

19088950763. 3

19088950764. 4

Question Number : 97 Question Id : 19088912718 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is an incorrect statement about Werner-Schmid process of fat estimation?

- (1) Werner-Schmid method is not applicable to sour milk
- (2) Werner-Schmid method involve use of Hydrochloric acid
- (3) Werner-Schmid process can be carried out in tubes used for Rose-Gottlieb process
- (4) Werner-Schmid process involve use of both solvents petroleum ether and diethyl ether

Options :

19088950765. 1

19088950766. 2

19088950767. 3

19088950768. 4

Question Number : 98 Question Id : 19088912719 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Specific rotation of α -Lactose at 20°C is

- | | |
|------------|------------|
| (1) +55.4° | (2) +89.4° |
| (3) +35° | (4) +53° |

Options :

19088950769. 1

19088950770. 2

19088950771. 3

19088950772. 4

Question Number : 99 Question Id : 19088912720 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Following test is used for detection of ghee adulteration with cottonseed oil

- | | |
|-------------------|------------------|
| (1) Baudouin test | (2) Halphen test |
| (3) Hansa test | (4) Henher test |

Options :

- 19088950773. 1
- 19088950774. 2
- 19088950775. 3
- 19088950776. 4

Question Number : 100 Question Id : 19088912721 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Freezing point of Buffalo milk is

- | | |
|-----------------------------|-----------------------------|
| (1) -0.52°C | (2) -0.55°C |
| (3) $+0.52^{\circ}\text{C}$ | (4) $+0.55^{\circ}\text{C}$ |

Options :

- 19088950777. 1
- 19088950778. 2
- 19088950779. 3
- 19088950780. 4

Question Number : 101 Question Id : 19088912722 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

- | List I | List II |
|-----------------------------------|------------------------------|
| (A) <i>Listeria monocytogenes</i> | (I) Typhoid |
| (B) <i>Salmonella typhi</i> | (II) Listeriolysin O |
| (C) <i>Staphylococcus aureus</i> | (III) Emetic toxin |
| (D) <i>Bacillus cereus</i> | (IV) Heat stable Enterotoxin |

Choose the correct answer from the options given below :

- (1) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (2) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (3) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- (4) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

Options :

- 19088950781. 1
- 19088950782. 2
- 19088950783. 3
- 19088950784. 4

Question Number : 102 Question Id : 19088912723 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In cow milk, the major immunoglobulin is

- | | |
|---------|---------|
| (1) IgG | (2) IgA |
| (3) IgM | (4) IgE |

Options :

- 19088950785. 1
- 19088950786. 2
- 19088950787. 3
- 19088950788. 4

Question Number : 103 Question Id : 19088912724 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following isolation medium used for *Listeria monocytogenes* in milk?

- (A) PALCAM Agar
- (B) Oxford Agar
- (C) Citrate Azide Agar
- (D) Bile Esculin Azide Agar

Choose the most appropriate answer from the options given below :

- (1) (A) and (B) only
- (2) (B) and (C) only
- (3) (C) and (D) only
- (4) (D) and (A) only

Options :

19088950789. 1

19088950790. 2

19088950791. 3

19088950792. 4

**Question Number : 104 Question Id : 19088912725 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

As per FSSAI, 2006 Standard fat content in Paneer (on dry matter basis) is

(1) Minimum 70%

(2) Minimum 50%

(3) Maximum 50%

(4) Maximum 70%

Options :

19088950793. 1

19088950794. 2

19088950795. 3

19088950796. 4

**Question Number : 105 Question Id : 19088912726 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Radio Immune Assay used for detection of

- (A) Antibiotics
- (B) Pesticides
- (C) Aflatoxin
- (D) Alkaline phosphatase
- (E) Heavy Metals

Choose the correct answer from the options given below :

- (1) (A) and (B)
- (2) (A), (B) and (C)
- (3) (A), (C) and (D)
- (4) (A), (D) and (E)

Options :

19088950797. 1

19088950798. 2

19088950799. 3

19088950800. 4

Question Number : 106 Question Id : 19088912727 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Censored value can be overcome by

- (A) Increasing dilution
- (B) Decreasing dilution
- (C) Increase the number of petridishes
- (D) Increase the number of sample units
- (E) Increase the quantity of sample

Choose the correct answer from the options given below :

- (1) (A) and (B)
- (2) (A), (B) and (C)
- (3) (C), (D) and (E)
- (4) (A), (B) and (E)

Options :

- 19088950801. 1
- 19088950802. 2
- 19088950803. 3
- 19088950804. 4

Question Number : 107 Question Id : 19088912728 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : Temperature of storage is the single most important factor that affects the spoilage of highly perishable foods.

Reason (R) : Spoilage can be predicted by spoilage rate curve and predicted spoilage at 10°C.

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

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (3) (A) is true but (R) is false
- (4) (A) is false but (R) is true

Options :

- 19088950805. 1
- 19088950806. 2
- 19088950807. 3
- 19088950808. 4

Question Number : 108 Question Id : 19088912729 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Mathematical or Predictive models are

- (A) First used in the production of commercially sterile products.
- (B) Numerical in nature.
- (C) They have six basic process.
- (D) Also known as modular process Risk Model.
- (E) Non numerical in nature.

Choose the correct answer from the options given below :

- (1) (A) and (B)
- (2) (B) and (C)
- (3) (C) and (D)
- (4) (D) and (A)

Options :

19088950809. 1

19088950810. 2

19088950811. 3

19088950812. 4

Question Number : 109 Question Id : 19088912730 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Implementation of HACCP is essential for

- (1) To reduce waste and increase productivity of the manufacturing system
- (2) To identify and manage process control to ensure safe foods
- (3) To educate and improve skills of employees to face real time problem
- (4) To satisfy the need of customer at any cost

Options :

19088950813. 1

19088950814. 2

19088950815. 3

19088950816. 4

Question Number : 110 Question Id : 19088912731 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Father of Statistical Quality Control is

- | | |
|-------------------|---------------------|
| (1) Philip Crosby | (2) Joseph Juran |
| (3) Edward Deming | (4) Walter Shewhart |

Options :

19088950817. 1

19088950818. 2

19088950819. 3

19088950820. 4

Question Number : 111 Question Id : 19088912732 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Choose the incorrect statement about Aflatoxin

- (1) Aflatoxins are hetrocyclic compounds
- (2) Aflatoxin M₁ is hydroxylated form of Aflatoxin B₁
- (3) Aflatoxin B₂ is more toxic than Aflatoxin B₁
- (4) Aflatoxin are secondary metabolites

Options :

19088950821. 1

19088950822. 2

19088950823. 3

19088950824. 4

Question Number : 112 Question Id : 19088912733 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Zero defect is a performance evaluation method in

- | | |
|----------------------|--------------------|
| (1) Pareto principle | (2) Juran's theory |
| (3) Crosby's theory | (4) Deming theory |

Options :

19088950825. 1

19088950826. 2

19088950827. 3

19088950828. 4

**Question Number : 113 Question Id : 19088912734 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

A solution is prepared by dissolving 1.26 g AgNO_3 in a 250 mL volumetric flask. What is the molarity of silver nitrate solution?

- | | |
|--------------------|--------------------|
| (1) 0.0321 mol/lit | (2) 0.0297 mol/lit |
| (3) 0.0742 mol/lit | (4) 0.0148 mol/lit |

Options :

19088950829. 1

19088950830. 2

19088950831. 3

19088950832. 4

**Question Number : 114 Question Id : 19088912735 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Molar absorption coefficient is

- (1) Absorbance for unit path length and unit concentration
- (2) Absorbance for unit path length and 1 M concentration
- (3) Absorbance for 1 M concentration
- (4) Absorbance for 1 cm path length and 1 M concentration

Options :

19088950833. 1

19088950834. 2

19088950835. 3

19088950836. 4

**Question Number : 115 Question Id : 19088912736 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following is not a correct statement?

- (1) pH range of a weak acid buffer is $pK_a \pm 1$
- (2) Buffering capacity of a weak acid buffer is maintained for acid : salt ratio in range 1 : 10 to 10 : 1
- (3) Buffering capacity of a weak acid buffer is given by number of moles of strong base required to change pH of 1 lit solution by 1 unit
- (4) For a salt of weak acid and a weak base, solution is acidic if $K_b > K_a$

Options :

19088950837. 1

19088950838. 2

19088950839. 3

19088950840. 4

**Question Number : 116 Question Id : 19088912737 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following HPLC detector provide structural information

- | | |
|-----------------|------------------|
| (1) UV-detector | (2) MS-detector |
| (3) RI-detector | (4) FID-detector |

Options :

19088950841. 1

19088950842. 2

19088950843. 3

19088950844. 4

Question Number : 117 Question Id : 19088912738 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

FSSAI standards for Listeria monocytogenes in pasteurized butter is

- | | |
|-------------------|-------------------|
| (1) < 100 cfu / g | (2) Absent / g |
| (3) Absent / 25 g | (4) Absent / 65 g |

Options :

19088950845. 1

19088950846. 2

19088950847. 3

19088950848. 4

Question Number : 118 Question Id : 19088912739 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In N = 65 samples of Infant milk foods were analysed for Enterobacter Sakajakii as per sampling plan in a production plant. The results are found to be C = 5 and other 60 samples were found to be negative for Salmonella. If you are the dispatch supervisor of the plant, Than, what will be your course of action?

- | | |
|------------------------|-------------------------|
| (1) Rejected | (2) Accepted |
| (3) Released to market | (4) Marginally accepted |

Options :

19088950849. 1

19088950850. 2

19088950851. 3

19088950852. 4

Question Number : 119 Question Id : 19088912740 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Rancimat instrument is used to measure

- | | |
|-----------------------------|-------------------------|
| (1) Hydrolytic rancidity | (2) Oxidative stability |
| (3) Free fatty acid content | (4) Total lipid content |

Options :

19088950853. 1

19088950854. 2

19088950855. 3

19088950856. 4

Question Number : 120 Question Id : 19088912741 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Major protein in bovine whey is

- | | |
|---------------------------|----------------------------|
| (1) α -Lactalbumin | (2) β -Lactoglobulin |
| (3) Bovine Serum Albumin | (4) Immunoglobulin |

Options :

19088950857. 1

19088950858. 2

19088950859. 3

19088950860. 4