

# National Testing Agency

<b>Question Paper Name :</b>	Food Science and Nutrition 17th September Shift 2
<b>Subject Name :</b>	Food Science and Nutrition
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<b>Display Marks:</b>	Yes

## Food Science and Nutrition

<b>Group Number :</b>	1
<b>Group Id :</b>	190889122
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	480
<b>Is this Group for Examiner? :</b>	No

## Part A: General Knowledge

<b>Section Id :</b>	190889290
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory

<b>Number of Questions :</b>	20
<b>Number of Questions to be attempted :</b>	20
<b>Section Marks :</b>	80
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889330
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 19088913942 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 :**

- 19088955661. 1
- 19088955662. 2
- 19088955663. 3
- 19088955664. 4

**Question Number : 2 Question Id : 19088913943 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 :**

19088955665. 1

19088955666. 2

19088955667. 3

19088955668. 4

**Question Number : 3 Question Id : 19088913944 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 :**

19088955669. 1

19088955670. 2

19088955671. 3

19088955672. 4

**Question Number : 4 Question Id : 19088913945 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 :**

19088955673. 1

19088955674. 2

19088955675. 3

19088955676. 4

**Question Number : 5 Question Id : 19088913946 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 B<sub>2</sub>?

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

**Options :**

19088955677. 1

19088955678. 2

19088955679. 3

19088955680. 4

**Question Number : 6 Question Id : 19088913947 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 :**

19088955681. 1

19088955682. 2

19088955683. 3

19088955684. 4

**Question Number : 7 Question Id : 19088913948 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 :**

19088955685. 1

19088955686. 2

19088955687. 3

19088955688. 4

**Question Number : 8 Question Id : 19088913949 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 :**

19088955689. 1

19088955690. 2

19088955691. 3

19088955692. 4

**Question Number : 9 Question Id : 19088913950 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 :**

19088955693. 1

19088955694. 2

19088955695. 3

19088955696. 4

**Question Number : 10 Question Id : 19088913951 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 :**

19088955697. 1

19088955698. 2

19088955699. 3

19088955700. 4

**Question Number : 11 Question Id : 19088913952 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 :**

19088955701. 1

19088955702. 2

19088955703. 3

19088955704. 4

**Question Number : 12 Question Id : 19088913953 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 :**

19088955705. 1

19088955706. 2

19088955707. 3

19088955708. 4

**Question Number : 13 Question Id : 19088913954 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 :**

19088955709. 1

19088955710. 2

19088955711. 3

19088955712. 4

**Question Number : 14 Question Id : 19088913955 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 :**

19088955713. 1

19088955714. 2

19088955715. 3

19088955716. 4

**Question Number : 15 Question Id : 19088913956 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 :**

19088955717. 1

19088955718. 2

19088955719. 3

19088955720. 4

**Question Number : 16 Question Id : 19088913957 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 :**

19088955721. 1

19088955722. 2

19088955723. 3

19088955724. 4

**Question Number : 17 Question Id : 19088913958 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 :**

19088955725. 1

19088955726. 2

19088955727. 3

19088955728. 4

**Question Number : 18 Question Id : 19088913959 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 :**

19088955729. 1

19088955730. 2

19088955731. 3

19088955732. 4

**Question Number : 19 Question Id : 19088913960 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 :**

19088955733. 1

19088955734. 2

19088955735. 3

19088955736. 4

**Question Number : 20 Question Id : 19088913961 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 :**

19088955737. 1

19088955738. 2

19088955739. 3

19088955740. 4

## **Part B Core : Community Home Science**

**Section Id :** 190889291

**Section Number :** 2

**Section type :** Online

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889331
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 19088913962 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What should a manager do while motivating employees?

1. Increase wages and salaries
2. Incorporate promotional opportunities
3. Recognize individual differences
4. Use employee-recognition program

**Options :**

19088955741. 1

19088955742. 2

19088955743. 3

19088955744. 4

**Question Number : 22 Question Id : 19088913963 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is an intermediate floor between two floor levels?

1. Mezzanine Floor
2. Basement
3. Headway
4. Terrace

**Options :**

19088955745. 1

19088955746. 2

19088955747. 3

19088955748. 4

**Question Number : 23 Question Id : 19088913964 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

According to Herzberg's Motivation-Hygiene Theory, which of the following is NOT a hygiene factor?

1. Working Conditions
2. Salary
3. Relationship with supervisor
4. Work itself

**Options :**

19088955749. 1

19088955750. 2

19088955751. 3

19088955752. 4

**Question Number : 24 Question Id : 19088913965 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

When rooms are designed in dark colors, the light is

1. Reflected
2. Absorbed
3. Conserved
4. Enhanced

**Options :**

19088955753. 1

19088955754. 2

19088955755. 3

19088955756. 4

**Question Number : 25 Question Id : 19088913966 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Raised area (above the foundation) on which the building is built is

1. Carpet area
2. Plot area
3. Plinth Area
4. Covered area

**Options :**

19088955757. 1

19088955758. 2

19088955759. 3

19088955760. 4

**Question Number : 26 Question Id : 19088913967 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Ruffled curtains make a room appear

1. Small
2. Big
3. Light
4. Dark

**Options :**

19088955761. 1

19088955762. 2

19088955763. 3

19088955764. 4

**Question Number : 27 Question Id : 19088913968 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following are elements of rhythm?

- A. Opposition
- B. Repetition
- C. Demarcation
- D. Gradation
- E. Alternation

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

1. A, C and D only
2. A, C and E only
3. B, D, and E only
4. A, B and C only

**Options :**

19088955765. 1

19088955766. 2

19088955767. 3

19088955768. 4

**Question Number : 28 Question Id : 19088913969 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
Movements	Joints / Muscles / Activity
A. Flexors and Extensors	I. Varicose veins
B. Fixed movement	II. Anti-gravity movement
C. Static contraction	III. Slow tense movement
D. Circulatory effects from standing	IV. Bathing an infant
	V. Antagonistic muscles

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

1. A - V, B - III, C - IV, D - I
2. A - II, B - V, C - I, D - IV
3. A - I, B - V, C - IV, D - II
4. A - II, B - III, C - IV, D - I

**Options :**

19088955769. 1

19088955770. 2

19088955771. 3

19088955772. 4

**Question Number : 29 Question Id : 19088913970 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 :** Standing in a static posture is fatiguing.

**Reason R :** Blood circulation is affected in the extremities while standing for work.

In 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 :**



19088955773. 1

19088955774. 2

19088955775. 3

19088955776. 4

**Question Number : 30 Question Id : 19088913971 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:** ISI has been given by Bureau of Indian Standards.

**Reason R:** Bureau of Indian Standards does not promote adoption and implementation of standards.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**

19088955777. 1

19088955778. 2

19088955779. 3

19088955780. 4

**Question Number : 31 Question Id : 19088913972 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The crinoline gown was popular used during the reign of:

1. Queen Elizabeth I
2. Empress Josehine, wife of Napoleon
3. Queen Victoria
4. Queen Nefratiti

**Options :**

19088955781. 1

19088955782. 2

19088955783. 3

19088955784. 4

**Question Number : 32 Question Id : 19088913973 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is not a type of kantha?

1. Lep
2. Zalakdozi
3. Oaar
4. Sujani

**Options :**

19088955785. 1

19088955786. 2

19088955787. 3

19088955788. 4

**Question Number : 33 Question Id : 19088913974 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

ILGWU stands for:

1. Indian law and Government welfare union
2. International labour and Government workforce union
3. International ladies garment workers union
4. International law and garment workers union

**Options :**

19088955789. 1

19088955790. 2

19088955791. 3

19088955792. 4

**Question Number : 34 Question Id : 19088913975 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

A chemical finish applied on cellulose textiles to improve the tenacity, luster and absorbency is:

1. Mercerization
2. Carbonizing
3. Crabbing
4. Fulling

**Options :**

19088955793. 1

19088955794. 2

19088955795. 3

19088955796. 4

**Question Number : 35 Question Id : 19088913976 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which fabric is woven in satin weave where silk warp covers most of the surface area while cotton weft lies on the under side?

1. Paithani
2. Mashru
3. Pochampalli
4. Kanjeevaram

**Options :**

19088955797. 1

19088955798. 2

19088955799. 3

19088955800. 4

**Question Number : 36 Question Id : 19088913977 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Disperse dyes have the unique property of:

1. Sublimation
2. Precipitation
3. Suspension
4. Dissolution

**Options :**

19088955801. 1

19088955802. 2

19088955803. 3

19088955804. 4

**Question Number : 37 Question Id : 19088913978 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In which of the following collars the neck edge of the collar follows the neckline of the garment?

- A. Cape
- B. Peterpan
- C. Sailors
- D. Mandarin
- E. Shirt Collar

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

1. A, B and C only
2. B, C, and D only
3. C, D and E only
4. A, D, and E only

**Options :**

19088955805. 1

19088955806. 2

19088955807. 3

19088955808. 4

**Question Number : 38 Question Id : 19088913979 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match the fabrics given in **List I** with their descriptions given in **List II**

List I	List II
A. Laces	I. Yarns are interlaced lengthwise and diagonally
B. Macrame	II. Interlocking loops of yarns
C. Braids	III. Knotting technique
D. Crochet	IV. Open work fabric

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

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

**Options :**

19088955809. 1

19088955810. 2

19088955811. 3

19088955812. 4

**Question Number : 39 Question Id : 19088913980 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 :** Bicomponent fibers and bigeneric fibers are same.

**Reason R :** Both fibers are made from two generically similar fiber solutions.

In 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. Both **A** and **R** are False
4. **A** is false but **R** is true

**Options :**

19088955813. 1

19088955814. 2

19088955815. 3

19088955816. 4

**Question Number : 40 Question Id : 19088913981 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** : COD values are normally higher than BOD values in waste water.

**Reason R** : More organic compounds can be chemically oxidised than biologically oxidised.

In 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 False
3. **A** is true but **R** is false
4. **A** is false but **R** is true

**Options :**

19088955817. 1

19088955818. 2

19088955819. 3

19088955820. 4

**Question Number : 41 Question Id : 19088913982 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Who gave the concept of Language Acquisition Device?

1. Freud
2. Chomsky
3. Piaget
4. Pavlov

**Options :**

19088955821. 1

19088955822. 2

19088955823. 3

19088955824. 4

**Question Number : 42 Question Id : 19088913983 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is an example of influence of nurture on development?

1. Skin colour
2. Genes
3. Family
4. Height

**Options :**

19088955825. 1

19088955826. 2

19088955827. 3

19088955828. 4

**Question Number : 43 Question Id : 19088913984 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Who is called the Father of the modern kindergarten?

1. Pestalozzi
2. Rousseau
3. Locke
4. Froebel

**Options :**

19088955829. 1

19088955830. 2

19088955831. 3

19088955832. 4



**Question Number : 44 Question Id : 19088913985 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which parenting style is least likely to be the cause of aggression in children?

1. Authoritative parenting
2. Authoritarian parenting
3. Neglect in parenting
4. Permissive parenting

**Options :**

19088955833. 1

19088955834. 2

19088955835. 3

19088955836. 4

**Question Number : 45 Question Id : 19088913986 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The average age of walking independently is

1. 9 months
2. 12 months
3. 15 months
4. 18 months

**Options :**

19088955837. 1

19088955838. 2

19088955839. 3

19088955840. 4

**Question Number : 46 Question Id : 19088913987 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The number of disabilities identified in the RPWD Act, 2016 Act is

1. 7
2. 21
3. 16
4. 13

**Options :**

19088955841. 1

19088955842. 2

19088955843. 3

19088955844. 4

**Question Number : 47 Question Id : 19088913988 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following activities promote the development of the ability of reading in young children?

- A. Listening to stories
- B. Identifying the odd picture in the group
- C. Playing hide and seek
- D. Threading beads
- E. Picture reading

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

1. A, C and D only
2. B, C and E only
3. A, B and D only
4. A, B and E only

**Options :**

19088955845. 1

19088955846. 2

19088955847. 3

19088955848. 4

**Question Number : 48 Question Id : 19088913989 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

**Match List I with List II**

<b>List I</b>	<b>List II</b>
A. Culture	I. Observation
B. Genes	II. Nature
C. Socialization	III. Nurture
D. Modeling	IV. Rewards
	V. Play

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

1. A - V , B - III , C - I, D - IV
2. A - IV, B - II, C - I , D - III
3. A - III, B - II, C - IV, D - I
4. A - III, B - IV, C - I , D - V

**Options :**

19088955849. 1

19088955850. 2

19088955851. 3

19088955852. 4

**Question Number : 49 Question Id : 19088913990 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** : Animistic thinking refers to the belief that inanimate objects have life-like qualities.

**Reason R** : Animistic thinking is at its peak during the concrete operational period.

In 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 :**

19088955853. 1

19088955854. 2

19088955855. 3

19088955856. 4

**Question Number : 50 Question Id : 19088913991 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

**Statement I** : Children are curious and actively construct their knowledge.

**Statement II**: Children are blank slates and need direct instruction to learn.

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

1. Both Statements I and II are true
2. Both Statements I and II are false
3. Statement I is true and Statement II is false
4. Statement I is false and Statement II is true

**Options :**

19088955857. 1

19088955858. 2

19088955859. 3

19088955860.4

**Question Number : 51 Question Id : 19088913992 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The National Plan of Action on Nutrition (NPAN) was released in the year \_\_\_\_\_ to implement the National Nutrition Policy?

1. 1973
2. 1985
3. 1995
4. 2006

**Options :**

19088955861.1

19088955862.2

19088955863.3

19088955864.4

**Question Number : 52 Question Id : 19088913993 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Kjeldahl method is commonly used for proximate analysis of:

1. Proteins
2. Fats
3. Carbohydrates
4. Vitamins

**Options :**

19088955865.1

19088955866.2

19088955867.3

19088955868.4

**Question Number : 53 Question Id : 19088913994 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following principles of food preservation is applied to prevent or delay self-decomposition of food?

1. Inactivation of food enzyme
2. Hindering the growth and activity of microorganism
3. Keeping out microorganisms
4. Prevention of damage by insects, animals and mechanical causes

**Options :**

19088955869. 1

19088955870. 2

19088955871. 3

19088955872. 4

**Question Number : 54 Question Id : 19088913995 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is a parched product?

1. Bhatura
2. Sauerkraut
3. Popcorn
4. Dhokla

**Options :**

19088955873. 1

19088955874. 2

19088955875. 3

19088955876. 4

**Question Number : 55 Question Id : 19088913996 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The thiamin and riboflavin content of parboiled rice is nearly \_\_\_\_\_ to that of polished rice.

1. Same
2. Double
3. Three times
4. Four times

**Options :**

19088955877. 1

19088955878. 2

19088955879. 3

19088955880. 4

**Question Number : 56 Question Id : 19088913997 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The process of Scalding involves:

1. Boiling vegetables in a solution of sodium hydroxide to decompose the pectin substances and loosen the skin.
2. Using high temperature to burn off outer hair and peels which are subsequently removed by water spray
3. Rotating food items in cylindrical equipment with rough surfaces to peel them
4. Dipping fruits and vegetables in boiling water for a short time so as to ease the peeling process.

**Options :**

19088955881. 1

19088955882. 2

19088955883. 3

19088955884. 4

**Question Number : 57 Question Id : 19088913998 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following are inhibitors of iron absorption in our diet?

- A. Proteins
- B. Vitamin C
- C. Phytates
- D. Oxalates
- E. Calcium

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

1. A, B and C only
2. A,C and D only
3. B, C and E only
4. C, D and E only

**Options :**

19088955885. 1

19088955886. 2

19088955887. 3

19088955888. 4

**Question Number : 58 Question Id : 19088913999 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Which of the following are examples of low moisture foods?

A. Turmeric powder

B. Marmalade

C. Squashes

D. Milk Powder

E. Chips

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

1. A, B and C only
2. A, D and E only
3. B,C and D only
4. C,D and E only

**Options :**

19088955889. 1

19088955890. 2

19088955891. 3

19088955892. 4

**Question Number : 59 Question Id : 19088914000 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
<b>(Natural Toxins)</b>	<b>(Foods they are present in)</b>
A. Trypsin Inhibitor	I. Lathyrus Sativus
B. BOAA	II. Soyabean
C. Saponins	III. Kidney Beans
D. Haemagglutinins	IV. Cabbage
E. Goitrogens	V. White bean, Horse Gram

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

1. A - V , B - IV , C - II , D - I, E- III
2. A - II, B - IV , C - V , D - III, E- I
3. A - III , B - I, C - II , D - V, E- IV
4. A - IV , B - III, C - I, D - II, E- V

**Options :**

19088955893. 1

19088955894. 2

19088955895. 3

19088955896. 4

**Question Number : 60 Question Id : 19088914001 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 :** Complementary feeding is best started around 8 months of age.

**Reason R :** Milk is a complete food.

In 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 false
3. **A** is true but **R** is false
4. **A** is false but **R** is true

**Options :**

19088955897. 1

19088955898. 2

19088955899. 3

19088955900. 4

**Question Number : 61 Question Id : 19088914002 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Localised Approach in Extension programme implementation is a-

1. National Level Approach
2. Mezzo Level Approach
3. Mass Level Approach
4. Micro level Approach

**Options :**

19088955901. 1

19088955902. 2

19088955903. 3

19088955904. 4

**Question Number : 62 Question Id : 19088914003 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which communication method is most appropriate to influence illiterate rural women about a social issue?

1. Discussion
2. Meeting
3. Role Play
4. Demonstration

**Options :**

19088955905. 1

19088955906. 2

19088955907. 3

19088955908.4

**Question Number : 63 Question Id : 19088914004 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Bhavai is a traditional art form from which of the following state in India?

1. Rajasthan
2. Uttar Pradesh
3. Maharashtra
4. Gujarat

**Options :**

19088955909.1

19088955910.2

19088955911.3

19088955912.4

**Question Number : 64 Question Id : 19088914005 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Choose the odd one out from the following audio visual aids-

1. Power Point Presentation
2. Films
3. Film- Strips
4. Flannel Graphs

**Options :**

19088955913.1

19088955914.2

19088955915.3

19088955916.4

**Question Number : 65 Question Id : 19088914006 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Marionettes are also called-

1. String Puppets
2. Rod Puppets
3. Shadow Puppets
4. Finger Puppets

**Options :**

19088955917. 1

19088955918. 2

19088955919. 3

19088955920. 4

**Question Number : 66 Question Id : 19088914007 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The following model of communication is also called as the circular model of the process of communication:

1. Shannon & Weaver's Model
2. Osgood & Schramm's Model
3. David Berlo's Model
4. Laswell's Model

**Options :**

19088955921. 1

19088955922. 2

19088955923. 3

19088955924. 4

**Question Number : 67 Question Id : 19088914008 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Result Demonstration is used in an extension teaching situation when-

- A. The Process is very long
- B. The Process is very simple
- C. The outcomes are to be compared
- D. The outcomes are not relevant
- E. The relative advantage of a method is to be shown

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

- 1. A, B and C only
- 2. A, B and D only
- 3. A, C and D only
- 4. A, C and E only

**Options :**

19088955925. 1

19088955926. 2

19088955927. 3

19088955928. 4

**Question Number : 68 Question Id : 19088914009 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The selection of a channel for communicating a given message to rural population group is based on -

- A. Cost of the channel
- B. Frequency of its use
- C. Accessibility of the targeted audience
- D. Popularity of the channel
- E. Presence of the channel on various media platforms

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

- 1. A, B and C only
- 2. A, B and D only
- 3. A, C and D only
- 4. A, C and E only

**Options :**

19088955929. 1

19088955930. 2

19088955931. 3

19088955932. 4

**Question Number : 69 Question Id : 19088914010 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
<b>Initiative</b>	<b>Right it upholds</b>
A. NREGS	I. Health
B. SSA	II. Information
C. RTI	III. Education
D. NHM	IV. Agriculture
	V. Work

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

1. A - V, B - II, C -IV, D - III
2. A - V, B - III, C - II, D - IV
3. A - V, B - IV, C - II, D - III
4. A - V, B - IV, C - I, D -III

**Options :**

19088955933. 1

19088955934. 2

19088955935. 3

19088955936. 4

**Question Number : 70 Question Id : 19088914011 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:** Need assessment is carried out to identify the gap between the present and the desired situation.

**Reason R:** Evaluation of programme planning are based on need assessment.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options :**



19088955937. 1

19088955938. 2

19088955939. 3

19088955940. 4

## Part C : Food Science and Nutrition

<b>Section Id :</b>	190889292
<b>Section Number :</b>	3
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889332
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 71 Question Id : 19088914012 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The substances which are added to food by the manufacturers to facilitate processing or to improve appearance, texture, flavour and keeping quality are termed as:

1. Adulterants
2. Contaminants
3. Fortificants
4. Additives

**Options :**

19088955941. 1

19088955942. 2

19088955943. 3

19088955944. 4

**Question Number : 72 Question Id : 19088914013 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is not an example of class 2 preservative used in the food industry?

1. Dextrose
2. Lactic Acid
3. Nitrate
4. Sorbic Acid

**Options :**

19088955945. 1

19088955946. 2

19088955947. 3

19088955948. 4

**Question Number : 73 Question Id : 19088914014 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The maximum limit of any permitted synthetic food colours which may be added to any food article enumerated in the Food Safety and Standards Regulation 2011 shall not exceed \_\_\_\_\_ of final food or beverage for consumption:

1. 25 parts per million
2. 50 parts per million
3. 100 parts per million
4. 150 parts per million

**Options :**

19088955949. 1

19088955950. 2

19088955951. 3

19088955952. 4

**Question Number : 74 Question Id : 19088914015 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Bovine Spongiform Encephalopathy (BSE) and Creutzfeldt-Jakob Disease (CJD) are new food borne diseases caused by:

1. Dioxins
2. Genetically modified foods
3. Veterinary drug residues
4. Prions

**Options :**

19088955953. 1

19088955954. 2

19088955955. 3

19088955956. 4

**Question Number : 75 Question Id : 19088914016 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

With regards to food safety, the temperature of Danger Zone lie between the ranges of:

1. 10 to 50<sup>0</sup>C
2. 5 to 60<sup>0</sup>C
3. 60<sup>0</sup>C and above
4. 0 to -10<sup>0</sup>C

**Options :**

19088955957. 1

19088955958. 2

19088955959. 3

19088955960. 4

**Question Number : 76 Question Id : 19088914017 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

To control rodents in a food service unit a \_\_\_\_\_ approach is used?

1. 2D
2. 3D
3. 4D
4. 5D

**Options :**

19088955961. 1

19088955962. 2

19088955963. 3

19088955964. 4

**Question Number : 77 Question Id : 19088914018 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In severe infection, the BMR increases by \_\_\_\_\_ % for every 1°C rise in body temperature.

1. 20
2. 13
3. 10
4. 7

**Options :**

19088955965. 1

19088955966. 2

19088955967. 3

19088955968. 4

**Question Number : 78 Question Id : 19088914019 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Management of which of the following metabolic disorder entails methionine restricted diet, supplemented with L-Cysteine and Pyridoxine (1g/day).

1. Homocystnuria
2. Tyrosinemia
3. Galactosemia
4. Gout

**Options :**

19088955969. 1

19088955970. 2

19088955971. 3

19088955972. 4

**Question Number : 79 Question Id : 19088914020 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

*H.pylori* infection is strongly implicated in the development of which of the following disease:

1. Pancreatitis
2. Oesophagitis
3. Sprue
4. Gastric Ulcer

**Options :**

19088955973. 1

19088955974. 2

19088955975. 3

19088955976. 4

**Question Number : 80 Question Id : 19088914021 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The IFA supplementation for adolescent girls under National Iron Plus Initiative (NIPI) programme is to be given:

1. Daily
2. Weekly
3. Bi-weekly
4. Fortnightly

**Options :**

19088955977. 1

19088955978. 2

19088955979. 3

19088955980. 4

**Question Number : 81 Question Id : 19088914022 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The new protein quality index now recommended for use by the ICMR Expert Committee (2020) to define protein quality is called:

1. Protein Digestibility Corrected Amino Acid Score (PDCASS)
2. Net Protein Utilization (NPU)
3. Amino Acid Score (AAS)
4. Digestible Indispensable Amino Acid Score (DIAAS)

**Options :**

19088955981. 1

19088955982. 2

19088955983. 3

19088955984. 4

**Question Number : 82 Question Id : 19088914023 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

For an adult Women, the visible fat intake for Sedentary, Moderate and Heavy activity, as recommended by ICMR (2020), is \_\_\_\_\_ g/day, respectively.

1. 15,20,25
2. 20,25,30
3. 25,30,35
4. 30,35,40

**Options :**

19088955985. 1

19088955986. 2

19088955987. 3

19088955988. 4

**Question Number : 83 Question Id : 19088914024 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which international organization in the world deals with the rule of trade between countries?

1. FAO
2. WHO
3. ISO
4. WTO

**Options :**

19088955989. 1

19088955990. 2

19088955991. 3

19088955992. 4

**Question Number : 84 Question Id : 19088914025 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The recommendations for fibre intake are based on the intake of which of the following food component?

1. Protein
2. Fat
3. Water
4. Energy

**Options :**

19088955993. 1

19088955994. 2

19088955995. 3

19088955996. 4

**Question Number : 85 Question Id : 19088914026 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The total energy expenditure (TEE) of an adult is expressed as:

1.  $BMR - PAL$
2.  $BMR + PAL$
3.  $BMR \times PAL$
4.  $BMR \div PAL$

**Options :**

19088955997. 1

19088955998. 2

19088955999. 3

19088956000. 4

**Question Number : 86 Question Id : 19088914027 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Which of the following are anti-nutritional substances present in food of natural origin

- A. Isoflavones
- B. Toxic alkaloids
- C. Enzyme inhibitors
- D. Cyanogenic glycosides
- E. Phytate

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

1. A, B and D only
2. A, C and E only
3. B, C and D only
4. C, D and E only

**Options :**

19088956001. 1

19088956002. 2

19088956003. 3

19088956004. 4

**Question Number : 87 Question Id : 19088914028 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The common adulterants found in milk include:

- A. Liquid paraffin
- B. Formaldehyde
- C. Sodium Carbonate
- D. Hydrogen Peroxide
- E. Auramine

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

1. A, B and D only
2. A, B and C only
3. B, C and D only
4. C, D and E only

**Options :**

19088956005. 1

19088956006. 2

19088956007. 3

19088956008. 4

**Question Number : 88 Question Id : 19088914029 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The foods best avoided by a peptic ulcer patient includes:

- A. Flaxseed, walnuts, Peanuts
- B. Whole wheat flour with bran
- C. Whole milk dairy products
- D. Lean meat, eggs
- E. Coffee, black tea

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

- 1. A, B and D only
- 2. A, D and E only
- 3. C, D and E only
- 4. B, C and E only

**Options :**

19088956009. 1

19088956010. 2

19088956011. 3

19088956012. 4

**Question Number : 89 Question Id : 19088914030 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The gluten containing foods best avoided by celiac patients include:

- A. Bran
- B. Rice
- C. Malt
- D. Oats
- E. Corn flour

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

1. A, C and D only
2. B, C and E only
3. C, D and E only
4. A, D and E only

**Options :**

19088956013. 1

19088956014. 2

19088956015. 3

19088956016. 4

**Question Number : 90 Question Id : 19088914031 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Examples of soluble fibre in our diet include:

- A. Pectin
- B. Hemicellulose
- C. Gums
- D. Cellulose
- E. Lignins

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

1. A, B and D only
2. A, B and C only
3. B, C and D only
4. C, D and E only

**Options :**

19088956017. 1

19088956018. 2

19088956019. 3

19088956020. 4

**Question Number : 91 Question Id : 19088914032 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following are diagnostic criteria for SAM in children aged 6 – 60 months of age?

- A. Weight for height less than -3SD
- B. Weight for Age less than -3SD
- C. MUAC less than 115mm
- D. Height-for-age less than -3SD
- E. Bilateral Oedema

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

- 1. A, B and D only
- 2. B, C and D only
- 3. A, C and E only
- 4. C, D and E only

**Options :**

19088956021. 1

19088956022. 2

19088956023. 3

19088956024. 4

**Question Number : 92 Question Id : 19088914033 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Food Safety and Standards (Prohibition and Restriction on Sales) Regulations, 2011) has prescribed mandatory certification under the BIS Act for which of the following products?

- A. Infant formula
- B. Vegetable Oil
- C. Packaged drinking water
- D. Processed cereal based weaning foods
- E. Pulses and oilseeds

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

1. A, C and D only
2. A, B and C only
3. B, C and D only
4. C, D and E only

**Options :**

19088956025. 1

19088956026. 2

19088956027. 3

19088956028. 4

**Question Number : 93 Question Id : 19088914034 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following minerals are of clinical significance during hypertension?

A. Iron

B. Calcium

C. Sodium

D. Potassium

E. Zinc

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

1. A, B and D only
2. A, C and E only
3. B, C and D only
4. C, D and E only

**Options :**

19088956029. 1

19088956030. 2

19088956031. 3

19088956032. 4

**Question Number : 94 Question Id : 19088914035 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



HACCP can be applied to which of the following sectors?

- A. Biscuit manufacturing
- B. Industrial goods retailing
- C. Space food system
- D. Fast food takeaway
- E. Marketing system

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

1. A, B and C only
2. A, C and D only
3. B, C and D only
4. C, D and E only

**Options :**

19088956033. 1

19088956034. 2

19088956035. 3

19088956036. 4

**Question Number : 95 Question Id : 19088914036 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Whole grain cereals are good source of which of the following in our diet?

- A. Vitamin A
- B. Vitamin C
- C. Phytates
- D. B Vitamins
- E. Calcium

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

- 1. A, B and C only
- 2. A, B and D only
- 3. B, C, D only
- 4. C, D and E only

**Options :**

19088956037. 1

19088956038. 2

19088956039. 3

19088956040. 4

**Question Number : 96 Question Id : 19088914037 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 **Statement A** and the other is labelled as **Statement B**

**Statement A:** Vegetable oils help lower cholesterol in our body.

**Statement B:** Increased cholesterol in blood leads to atherosclerosis.

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

- 1. Both **A** and **B** are true
- 2. Both **A** and **B** are false
- 3. **A** is true but **B** is false
- 4. **A** is false but **B** is true

**Options :**

19088956041. 1

19088956042. 2

19088956043. 3

19088956044. 4

**Question Number : 97 Question Id : 19088914038 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 **Statement A** and the other is labelled as **Statement B**

**Statement A:** Fermentation creates a characteristic taste and flavour in the products.

**Statement B:** Fermentation produces carbon dioxide that causes flatulence.

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

1. Both **A** and **B** are true
2. Both **A** and **B** are false
3. **A** is true but **B** is false
4. **A** is false but **B** is true

**Options :**

19088956045. 1

19088956046. 2

19088956047. 3

19088956048. 4

**Question Number : 98 Question Id : 19088914039 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 **Statement A** and the other is labelled as **Statement B**

**Statement A :** Folate helps in reducing the risk of heart disease and stroke by lowering the level of the amino acid homocysteine in the blood.

**Statement B:** Deficiency of folate can cause neural tube defects.

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

1. Both **A** and **B** are true
2. Both **A** and **B** are false
3. **A** is true but **B** is false
4. **A** is false but **B** is true

**Options :**

19088956049. 1

19088956050. 2

19088956051. 3

19088956052. 4

**Question Number : 99 Question Id : 19088914040 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 **Statement A** and the other is labelled as **Statement B**

**Statement A:** During the first trimester of pregnancy the additional energy required is 350KCal.

**Statement B:** The increase in iron requirements during the first trimester is minimal .

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

1. Both **A** and **B** are true
2. Both **A** and **B** are false
3. **A** is true but **B** is false
4. **A** is false but **B** is true

**Options :**

19088956053. 1

19088956054. 2

19088956055. 3

19088956056. 4

**Question Number : 100 Question Id : 19088914041 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 **Statement A** and the other is labelled as **Statement B**

**Statement A:** Maillard reaction is a reaction between protein and fat found in foods in the presence of heat.

**Statement B:** The Maillard reaction often help in improving the taste and flavour of certain foods.

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

1. Both **A** and **B** are true
2. Both **A** and **B** are false
3. **A** is true but **B** is false
4. **A** is false but **B** is true

**Options :**

19088956057. 1

19088956058. 2

19088956059. 3

19088956060. 4

**Question Number : 101 Question Id : 19088914042 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
(Terminology used in the context of Nutrient Requirements)	(Definition)
A. Estimated Average Requirement (EAR)	I. Recommended average daily intake level based on experimentally determined estimates of nutrient intake by a group of apparently healthy people that are assumed to be adequate
B. Tolerable Upper Limit (TUL)	II. The average daily dietary intake that is sufficient to meet the nutrient requirement of nearly all healthy individuals in a particular life stage and gender group
C. Safe Intake	III. A value derived from the EAR and is calculated as EAR minus 2SD of the distribution of requirements.
D. Recommended Dietary Allowances (RDA)	IV. The average daily nutrient intake that meets the requirement of half of the healthy individuals in a given life stage and gender group
E. Lower Reference Nutrient Intake (LRNI)	V. The highest continuing level of daily nutrient intake that is likely to pose no risk of adverse health effects in almost all individuals, in the specified life stage group

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

1. A - V, B - III, C - II, D - IV, E - I
2. A - III, B - I, C - II, D - V, E - IV
3. A - II, B - IV, C - V, D - III, E - I
4. A - IV, B - V, C - I, D - II, E - III

**Options :**

19088956061. 1

19088956062. 2

19088956063. 3

19088956064. 4

**Question Number : 102 Question Id : 19088914043 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
<b>(Vitamin)</b>	<b>(Co-enzyme)</b>
A. Folic Acid	I. Pyridoxal phosphate
B. Riboflavin	II. Pyruvate Carboxylase
C. Vitamin B <sub>6</sub>	III. THFA
D. Pantothenic Acid	IV. FMN
E. Biotin	V. Coenzyme A

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

1. A - V, B - I, C - II, D - IV, E-III
2. A - III, B - IV, C - I, D - V, E - II
3. A - II, B - IV, C - V, D - III, E - I
4. A - IV, B - III, C - V, D - I, E - II

**Options :**

19088956065. 1

19088956066. 2

19088956067. 3

19088956068. 4

**Question Number : 103 Question Id : 19088914044 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
<b>(Food Borne Diseases)</b>	<b>(Example)</b>
A. Mycotoxins	I. Cholera
B. Food Borne Intoxication	II. Epidemic Dropsy
C. Food Borne Toxic Infections	III. Ergotism
D. Food Borne Infections	IV. Botulism
E. Food Borne Diseases due to naturally occurring Toxicants	V. Salmonellosis

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

1. A - IV, B - I, C - V, D - II, E - III
2. A - II, B - III, C - V, D - I, E - IV
3. A - III, B - IV, C - I, D - V, E - II
4. A - V, B - III, C - IV, D - II, E - I

**Options :**

19088956069. 1

19088956070. 2

19088956071. 3

19088956072. 4

**Question Number : 104 Question Id : 19088914045 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
<b>( Food Spoilage)</b>	<b>(Causative Organism)</b>
A. Surface slime on meat	I. Micrococcus
B. Black rot in egg	II. Pseudomonas
C. Black mould rot in vegetables	III. Proteus
D. Ropiness of bread	IV. Aspergillus
E. Shrunken curd	V. Bacillus mesentericus

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

1. A - II, B - III, C - IV , D - V, E - I
2. A - III , B - IV, C - V, D - I, E - II
3. A - IV, B - V, C - I , D - II, E - III
4. A - V, B - I , C - II, D - III, E - IV

**Options :**

19088956073. 1

19088956074. 2

19088956075. 3

19088956076. 4

**Question Number : 105 Question Id : 19088914046 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
<b>(Food)</b>	<b>(Toxin present in them)</b>
A. Cassava	I. Cucurbitacins
B. Fava beans	II. BOAA
C. Lathyrus sativus	III. Solanine
D. Potato	IV. Cyanide precursors
E. Cucumber	V. Linamarin

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

1. A - V, B - IV, C - II, D - III, E - I
2. A - IV, B - III, C - I, D - V, E - II
3. A - II, B - I, C - IV, D - V, E - III
4. A - III, B - II, C - V, D - I, E - IV

**Options :**

19088956077. 1

19088956078. 2

19088956079. 3

19088956080. 4

**Question Number : 106 Question Id : 19088914047 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
<b>(Additives)</b>	<b>(Example)</b>
A. Food Colour	I. Calcium ferrocyanide
B. Flavouring Agent	II. Edible gums
C. Anti-Caking Agent	III. Monosodium glutamate
D. Stabilizing Agent	IV. EDTA
E. Sequesterants	V. Annatto

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

1. A - III, B - IV , C - V, D - I, E - II
2. A - II , B - I , C - IV , D - V, E - III
3. A - V , B - III , C - I , D - II, E - IV
4. A - IV, B - I, C - II , D - V, E - III

**Options :**

19088956081. 1

19088956082. 2

19088956083. 3

19088956084. 4

**Question Number : 107 Question Id : 19088914048 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
<b>(Age Group)</b>	<b>( EAR Energy ICMR 2020)</b>
A. Girls 10-12 years	I. 2260
B. Adult Pregnant women in 3rd trimester	II. 2060
C. Girl 16 -18 years	III. 2010
D. Adult Moderately active women	IV. 2500
E. Adult woman in the first month of lactation	V. 2130

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

1. A - V, B - I, C - II, D - III, E - IV
2. A - ,III B - IV, C - V, D - I, E-II
3. A -IV , B - V, C - I, D - II, E- III
4. A - II , B - III, C - IV, D - V, E- I

**Options :**

19088956085. 1

19088956086. 2

19088956087. 3

19088956088. 4

**Question Number : 108 Question Id : 19088914049 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
(Adulterant)	(Method Used to Detect Adulterant)
A. Vanaspati	I. Put the sample in dilute hydrochloric acid. Pink/ magenta colour develops indicating the presence of the adulterant
B. Mineral Oil	II. In one tea spoonful of melted sample, add 5 ml concentrated hydrochloric acid. Shake for 5 minutes, add a pinch of sugar or furfural. Appearance of pink colour in the acid layer indicates added adulterant
C. Metanil Yellow	III. Sprinkle the sample on a bloating paper and spray a little potassium hydroxide solution. If adulterant present, a brown colour spreads around the particles
D. Starch	IV. To 2 ml of sample taken in a flask, add 20 ml of 0.5 ml normal alcoholic potash. Heat for 30 minutes and add 20 ml hot water. If turbidity appears, adulterant is present.
E. Tamarind Powder	V. Mix sample in a test tube with water, add a few drops of iodine solution. A blue colour indicates the presence of adulterant .

Choose the correct answer from the options given below:

1. A - III, B - V, C - IV, D - II, E - I
2. A - II, B - IV, C - I, D - V, E - III
3. A - IV, B - III, C - V, D - I, E - II
4. A - V, B - I, C - II, D - III, E - IV

**Options :**

19088956089. 1

19088956090. 2

19088956091. 3

19088956092. 4

**Question Number : 109 Question Id : 19088914050 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
<b>(Type of Packaging)</b>	<b>(Uses)</b>
A. Laminated paper board cartons	I. Dry cereals, Potato
B. Polyethylene terephthalate (PET)	II. UHT foods
C. Metallized film	III. Packaged cooked meats
D. Polypropylene-ethylene vinyl acetate laminate	IV. Carbonated drinks
E. Glassine paper	V. Packaging of snacks, candy and nuts

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

1. A - IV, B - I, C - II, D - V, E - III
2. A - III, B - V, C - IV, D - I, E - II
3. A - II, B - IV, C - V, D - III, E - I
4. A - V, B - III, C - I, D - II, E - IV

**Options :**

19088956093. 1

19088956094. 2

19088956095. 3

19088956096. 4

**Question Number : 110 Question Id : 19088914051 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
(Disease Condition)	(Foods to be Avoided/ Recommended)
A. GERD	I. Low residue diet, fats rich in medium chain fatty acids, tender meat, fish poultry may be given
B. Diverticulosis	II. Bland diet, avoid foods that produce flatulence, greasy, fatty food, carbonated beverages
C. Celiac Disease	III. High fibre diet, Lower intake of protein such as red meat and milk products
D. Ulcerative Colitis	IV. Avoid raw onions, chocolate, caffeine, peppermint, citrus juices, alcoholic beverages, tomato products and spicy foods
E. Dyspepsia	V. Avoid breaded vegetables and meat, pizza, pasta, milk beverages, samosa, mathri

Choose the correct answer from the options given below:

1. A - IV, B - III, C - V, D - I, E - II
2. A - V, B - I, C - II, D - III, E - IV
3. A - II, B - V, C - IV, D - III, E - I
4. A - II, B - IV, C - V, D - I, E - III

**Options :**

19088956097. 1

19088956098. 2

19088956099. 3

19088956100. 4

**Question Number : 111 Question Id : 19088914052 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 :** Maple Syrup Urine Disease (MSUD) is an inherited metabolic disorders of three branched chain amino acids (BCAA).

**Reason R :** Due to absence of alpha-keto acid dehydrogenase enzyme complex, amino acids leucine, isoleucine and valine cannot be metabolized resulting in accumulation of ketoacids.

In 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 :**

19088956101. 1

19088956102. 2

19088956103. 3

19088956104. 4

**Question Number : 112 Question Id : 19088914053 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 :** There are no RDA set for carbohydrate intake.

**Reason R :** The carbohydrate intake is expressed as a proportion of total energy intake (EN%).

In 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 :**



19088956105. 1

19088956106. 2

19088956107. 3

19088956108. 4

**Question Number : 113 Question Id : 19088914054 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 :** Glycemic load (GL) of a food is the blood glucose response after consuming a CHO containing food relative to a CHO containing reference food.

**Reason R :** Glycemic load (GL) considers the Glycemic index (GI) and the total amount of available CHO present in the food consumed.

In 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 :**

19088956109. 1

19088956110. 2

19088956111. 3

19088956112. 4

**Question Number : 114 Question Id : 19088914055 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** : WHO recommends to limit the intake of sodium to 5 g/day or 2 g sodium/day.

**Reason R** : Sodium is the principal cation in intracellular fluid in the body, and is an essential nutrient necessary for maintenance various body functions.

In 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 :**

19088956113. 1

19088956114. 2

19088956115. 3

19088956116. 4

**Question Number : 115 Question Id : 19088914056 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** : Studies in different physiological groups indicated that the prevalence of serum zinc deficiency in India is >20%.

**Reason R** : A high dietary phytate intake suggest that Indian population is at risk of zinc deficiency.

In 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 :**

19088956117. 1

19088956118. 2

19088956119. 3

19088956120. 4

**Question Number : 116 Question Id : 19088914057 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given here are some common foods used in Indian diets. Arrange them in ascending order based on their glycemic index:

- A. Full fat milk
- B. Sweet corn
- C. Chick peas
- D. Instant oat porridge
- E. Whole wheat bread
- F. Chocolate

Choose the *correct* answer from the options given below

- 1. B, E, A, D, F, C
- 2. C, A, F, B, E, D
- 3. E, D, C, A, B, F
- 4. D, C, B, A, E, F

**Options :**

19088956121. 1

19088956122. 2

19088956123. 3

19088956124. 4

**Question Number : 117 Question Id : 19088914058 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The exogenous causes in the development of fever are presented herewith. Arrange them in the order of occurrence:

- A. Increase in temperature
- B. Infection due to bacteria, fungi or any antigenic input
- C. Release of pyrogen (fever inducing hormone)
- D. Synthesis of prostaglandins (hormone like substance)
- E. Activation of phagocytes in the bone marrow
- F. Thermo regulatory center activated in the anterior hypothalamus

Choose the *correct* answer from the options given below

- 1. B, E, C, D, F, A
- 2. C, B, D, E, A, F
- 3. D, F, B, C, E, A
- 4. E, C, A, B, F, D

**Options :**

19088956125. 1

19088956126. 2

19088956127. 3

19088956128. 4

**Question Number : 118 Question Id : 19088914059 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given is a list of foods. Arrange them in increasing order (from low to high) according to their energy density (Kcal per g)

A. Spinach

B. Cucumber

C. Refined flour

D. Wheat bread

E. Banana

F. Egg

Choose the *correct* answer from the options given below

1. E, D, B, C, A, F
2. D, C, A, B, F, E
3. B, A, E, F, D, C
4. C, B, F, A, E, D

**Options :**

19088956129. 1

19088956130. 2

19088956131. 3

19088956132. 4

**Question Number : 119 Question Id : 19088914060 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given are the steps involved in the manufacture of milk powder. Arrange them in the right sequence of manufacture:

- A. Clarification
- B. Standardization
- C. Evaporation Vacuum
- D. Milk concentrate
- E. Milk
- F. Fat Separation
- G. Pasteurization
- H. Spray Dry

Choose the *correct* answer from the options given below

1. H, D, G, B, A, C, F, E
2. D, C, E, A, B, G, H, F
3. F, B, D, G, A, H, C, E
4. E, A, F, B, G, C, D, H

**Options :**

19088956133. 1

19088956134. 2

19088956135. 3

19088956136. 4

**Question Number : 120 Question Id : 19088914061 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given are some food components which provide protein in our diet. Arrange them according to their biological value from the highest to the lowest:

A. Ground nut

B. Wheat

C. Bengal gram

D. Milk

E. Maize

F. Egg

Choose the *correct* answer from the options given below

1. B, D, E, A, C, F
2. C, E, F, B, A, D
3. F, D, C, B, A, E
4. B, F, A, D, E, C

**Options :**

19088956137. 1

19088956138. 2

19088956139. 3

19088956140. 4