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# **DSSSB**

**Previous Year Paper**  
**Food Safety Officer**  
**22 April 2021 Shift 3**





GOVT. OF NCT OF DELHI  
Delhi Subordinate Services Selection Board  
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Participant ID:	
Participant Name:	
Test Center Name:	
Test Date:	22/04/2021
Test Time:	4:30 PM - 6:30 PM
Subject:	Food Safety Officer

Section : Discipline1

Q.1 The Red Sindhi cow originally belongs to:

- Ans
- ☒ 1. Western region of Rajasthan
  - ☒ 2. Lahore and Punjab in Pakistan
  - ☒ 3. Karachi and Hyderabad in Pakistan
  - ☒ 4. Punjab in India

Question ID : 6009298304

Q.2 Any valid equation that relates to physical quantities must be dimensionally \_\_\_\_\_.

- Ans
- ☒ 1. heterogeneous
  - ☒ 2. homologous
  - ☒ 3. homogeneous
  - ☒ 4. accurate

Question ID : 6009298301

Q.3 In fluid mechanics, a system is defined as a fixed, identifiable quantity of mass; the system boundaries separate the system from the \_\_\_\_\_.

- Ans
- ☒ 1. context
  - ☒ 2. experimenter
  - ☒ 3. surroundings
  - ☒ 4. experiment

Question ID : 6009298300

Q.4 What percentage of dehydration leads to death in animals?

- Ans
- ☒ 1. 14 percent and above
  - ☒ 2. 4 percent
  - ☒ 3. 8 percent
  - ☒ 4. 12 percent

Question ID : 6009298305

**Q.5** All organisms have two names-the first signifies the genus and the second signifies the:

- Ans
- ☒ 1. Species
  - ☐ 2. Kingdom
  - ☐ 3. Order
  - ☐ 4. Class

Question ID : 6009298289

**Q.6** The toxin produced in a Staphylococcal food intoxication is a:

- Ans
- ☐ 1. Hepatotoxin
  - ☐ 2. Neurotoxin
  - ☒ 3. Enterotoxin
  - ☐ 4. Aflatoxin

Question ID : 6009298294

**Q.7** Which of the following is a common cause which lead to accidents in a workshop?

- Ans
- ☐ 1. Traditional technology
  - ☐ 2. Nature of Project
  - ☐ 3. Size of the tools
  - ☒ 4. Unsafe working position

Question ID : 6009298297

**Q.8** Which of the following is a characteristic of a lyophilic colloid?

- Ans
- ☐ 1. They need special methods for preparation
  - ☒ 2. They are reversible
  - ☐ 3. They exhibit strong Tyndall effect
  - ☐ 4. Viscosity of sol is similar to the dispersion medium

Question ID : 6009298292

**Q.9** The major constituent of milk which ranges from 85.5 percent to 88.7 percent is:

- Ans
- ☒ 1. Water
  - ☐ 2. Fat
  - ☐ 3. Protein
  - ☐ 4. Lactose

Question ID : 6009298290

Q.10 Which of the following is a basic law, which is applicable to any fluid?

- Ans
- ☐ 1. Einstein's theory of relativity
  - ☐ 2. Newton's first law of motion
  - ☒ 3. The conservation of mass
  - ☐ 4. The third law of thermodynamics

Question ID : 6009298299

Q.11 Gram reaction developed in 1884 by Danish physician Christian Gram is used only for:

- Ans
- ☒ 1. Bacteria
  - ☐ 2. Fungi
  - ☐ 3. Algae
  - ☐ 4. Virus

Question ID : 6009298288

Q.12 The particles in true solution will not settle down but the particles in colloidal suspension can settle upon \_\_\_\_\_ centrifugation.

- Ans
- ☒ 1. High speed
  - ☐ 2. Medium Speed
  - ☐ 3. Low friction
  - ☐ 4. Low Speed

Question ID : 6009298293

Q.13 What is cross breeding?

- Ans
- ☐ 1. A system of breeding between random breeds
  - ☒ 2. A system of breeding between two established breeds
  - ☐ 3. A system of breeding between multiple breeds
  - ☐ 4. A system of insemination through technology

Question ID : 6009298303

Q.14 A \_\_\_\_\_ is a substance that deforms continuously under the application of a shear (tangential) stress no matter how small the shear stress may be.

- Ans
- ☐ 1. Camphor
  - ☒ 2. Fluid
  - ☐ 3. Proton
  - ☐ 4. Solid

Question ID : 6009298298

Q.15 Which of the following is a common machining operation?

- Ans
- ☐ 1. cooling
  - ☒ 2. Drilling
  - ☐ 3. Casting
  - ☐ 4. hammering

Question ID : 6009298295

Q.16 Which of the following is a common process for joining metal parts and general fabrication work?

- Ans
- ☒ 1. Pressing
  - ☐ 2. Polishing
  - ☐ 3. Lapping
  - ☐ 4. Buffing

Question ID : 6009298296

Q.17 A cow apparently always in heat is called a \_\_\_\_\_.

- Ans
- ☒ 1. Buller
  - ☐ 2. Bull calf
  - ☐ 3. Heifer
  - ☐ 4. Bullock

Question ID : 6009298302

Q.18 Which statement best describes viruses?

- Ans
- ☐ 1. They cannot pass through bacterial filters
  - ☒ 2. They can cause disease in both prokaryotes and eukaryotes
  - ☐ 3. They are visible under a compound microscope
  - ☐ 4. They can reproduce outside a host cell

Question ID : 6009298286

Q.19 Lactose is present in milk in the form of:

- Ans
- ☒ 1. a true solution
  - ☐ 2. an emulsion
  - ☐ 3. a colloid
  - ☐ 4. an ionic solution

Question ID : 6009298291

Q.20 \_\_\_\_\_ do not fall within the Five Kingdom scheme.

- Ans
- ☐ 1. fungi
  - ☐ 2. protozoa
  - ☐ 3. algae
  - ☒ 4. viruses

Question ID : 6009298287

Section : Discipline2

Q.1 Which of the following equipment will be found at the Milk Collection Centre?

- Ans
- ☐ 1. Bottle opener
  - ☐ 2. Gerber centrifuge
  - ☒ 3. Milk sampler
  - ☐ 4. Atmospheric thermometer

Question ID : 6009298324

Q.2 Domesticated cattle are usually classified into two major groups namely European and:

- Ans
- ☒ 1. Zebu
  - ☐ 2. Australian
  - ☐ 3. Asian
  - ☐ 4. African

Question ID : 6009298321

Q.3 Marginal Utility (MU) refers to the change in the Total Utility obtained from the consumption of an additional unit of a commodity. It may be expressed as:

- Ans
- ☐ 1.  $MU \times \Delta TU \times \Delta Q = 1$
  - ☐ 2.  $\Delta Q = MU \times \Delta TU$
  - ☐ 3.  $MU = \frac{\Delta TU}{\Delta Q}$
  - ☒ 4.  $MU = \Delta TU \times \Delta Q$

Question ID : 6009298312

Q.4 Which among the following is NOT a problem caused by dam?

- Ans
- ☐ 1. Fragmentation and physical transformation caused by dams
  - ☒ 2. Increase in rate of evaporation of stored water
  - ☐ 3. Social consequences of large dams due to the displacement of people
  - ☐ 4. Serious impact on riverine ecosystems

Question ID : 6009298319

**Q.5 Which of the following is a component of environmental science?**

- Ans
- ☒ 1. Sociology
  - ☒ 2. Psychology
  - ☒ 3. Mathematics
  - ☒ 4. Biology

Question ID : 6009298317

**Q.6 Who wrote the book 'General Theory of Employment, Interest and Money' that introduced Macro Economics as a means to analyse economies?**

- Ans
- ☒ 1. John Maynard Keynes
  - ☒ 2. Karl Marx
  - ☒ 3. Friedrich Engels
  - ☒ 4. Adam Smith

Question ID : 6009298311

**Q.7 \_\_\_\_\_ is a general-purpose electronic spreadsheet used to organize, calculate, and analyze data.**

- Ans
- ☒ 1. MS Word
  - ☒ 2. MS Excel
  - ☒ 3. MS Power Point
  - ☒ 4. MS Outlook

Question ID : 6009298314

**Q.8 Technical drawings allows efficient communication among engineers and can be kept as a record of the \_\_\_\_\_.**

- Ans
- ☒ 1. Planning Process
  - ☒ 2. Management Process
  - ☒ 3. Execution Process
  - ☒ 4. Budgeting Process

Question ID : 6009298306

**Q.9 Who is considered as the Founder of Microeconomics?**

- Ans
- ☒ 1. Karl Marx
  - ☒ 2. Friedrich Engels
  - ☒ 3. Adam Smith
  - ☒ 4. Vladimir Lenin

Question ID : 6009298310



**Q.10** Engineering Drawing can be classified in four major branches of engineering. Which of the following is not one of them?

- Ans ☒ 1. Chemical Engineering Drawing  
☐ 2. Mechanical Engineering Drawing  
☐ 3. Electrical Engineering Drawing  
☐ 4. Civil Engineering Drawing

Question ID : 6009298307

**Q.11** During the two decades between 1951 and 1970, the annual growth rate in milk production was just about:

- Ans ☐ 1. 5 percent  
☐ 2. 10 percent  
☒ 3. 1 percent  
☐ 4. 3 percent

Question ID : 6009298322

**Q.12** The drawing sheets are designated by symbols. Which of the following symbols represent the largest size of the drawing sheet?

- Ans ☐ 1. A3  
☐ 2. A2  
☒ 3. A0  
☐ 4. A1

Question ID : 6009298308

**Q.13** Method of folding of printed drawing sheets is determined as per:

- Ans ☐ 1. BIS: 46-2003  
☐ 2. BIS SP: 80-2003  
☒ 3. BIS SP: 46-2003  
☐ 4. BIS SP: 36-2021

Question ID : 6009298309

**Q.14** Which of the following is NOT an objective with which 'Man and the Biosphere (MAB) programme' was launched by UNESCO?

- Ans ☐ 1. To conserve representative samples of ecosystems  
☒ 2. To provide recreational space for human nature interactions  
☐ 3. To promote and facilitate basic and applied research and monitoring  
☐ 4. To provide long-term in-situ conservation of genetic diversity

Question ID : 6009298320

**Q.15 Which one of the following is to be considered while fixing the price of milk from milk producer's point of view?**

- Ans
- ☒ 1. Plant capacity utilization
  - ☒ 2. The cost of milk production
  - ☒ 3. The market objective of the processing plant
  - ☒ 4. Consideration of the size of the population that is to be covered by the milk scheme

Question ID : 6009298323

**Q.16 The stages in the process of soil formation are weathering and:**

- Ans
- ☒ 1. Porosity of soil formula
  - ☒ 2. Pedagogical analysis
  - ☒ 3. Permeation
  - ☒ 4. Pedogenesis

Question ID : 6009298318

**Q.17 Software design essentially involves three abstract concepts. Select the option that is not an abstract concept:**

- Ans
- ☒ 1. Data Science
  - ☒ 2. Algorithms
  - ☒ 3. Data structures
  - ☒ 4. File structures

Question ID : 6009298315

**Q.18 The cardinal utility approach to consumer analysis makes some assumptions. Which of the following is one of them?**

- Ans
- ☒ 1. Consumers intent is to get maximum satisfaction from given income
  - ☒ 2. The consumer is emotional
  - ☒ 3. Utility is subtractive
  - ☒ 4. The consumer has unlimited income

Question ID : 6009298313

**Q.19 Which of the following is NOT true for a compiler?**

- Ans
- ☒ 1. A compiler is a program that translates a sentence into a target language
  - ☒ 2. A compiler is a program that translates a sentence while preserving its meaning in the process
  - ☒ 3. A compiler is a program that translates a sentence from a source language.
  - ☒ 4. A compiler is a program that translates a sentence in random functions

Question ID : 6009298316

Q.20 Which of the following is not a milk-borne disease?

- Ans
- ☐ 1. Typhoid fever
  - ☐ 2. Tuberculosis
  - ☐ 3. Brucellosis
  - ☒ 4. Viral Fever

Question ID : 6009298325

Section : Discipline3

Q.1 The percent range of Micrococci microbial groups present in raw milk is:

- Ans
- ☐ 1. 200-293
  - ☐ 2. 1-20
  - ☐ 3. 115-165
  - ☒ 4. 30-99

Question ID : 6009298326

Q.2 The general formula of alpha-amino acids is:

- Ans
- ☐ 1.  $\text{H}_3\text{NCHRCOOH}$
  - ☐ 2.  $\text{N}_2\text{CHRCOOH}$
  - ☐ 3.  $\text{H}_2\text{NCHRCOH}$
  - ☒ 4.  $\text{H}_2\text{NCHRCOOH}$

Question ID : 6009298341

Q.3 Milk plasma is the portion of milk which is free from:

- Ans
- ☐ 1. Water
  - ☐ 2. Carbohydrate
  - ☒ 3. Fat
  - ☐ 4. Minerals

Question ID : 6009298332

Q.4 Electricity is a form of energy which involves flow of electrons in a \_\_\_\_\_ to do work.

- Ans
- ☐ 1. an insulated circuit
  - ☒ 2. a closed circuit
  - ☐ 3. an open ended circuit
  - ☐ 4. an open circuit

Question ID : 6009298337

**Q.5** Proteins are defined as high molecular weight polymers of  $\alpha$ -amino acids that are formed by living organisms. Except for glycine, all these amino acids have:

- Ans
- ☒ 1. H-configuration
  - ☒ 2. L-configuration
  - ☒ 3. K-configuration
  - ☒ 4. D-configuration

Question ID : 6009298333

**Q.6** Propagation of thermal radiation takes place in the form of discrete quanta, each quantum having energy of:

- Ans
- ☒ 1.  $E = hv$
  - ☒ 2.  $E \times h \times v$
  - ☒ 3.  $E = \frac{h}{v}$
  - ☒ 4.  $h = \frac{v}{E}$

Question ID : 6009298330

**Q.7** Log Mean Temperature Difference (LMTD) is introduced in the design of heat exchangers. It is represented by:

- Ans
- ☒ 1.  $LMTD = \frac{\Delta T_1 - \Delta T_2}{Kn\left(\frac{T_1}{T_2}\right)}$
  - ☒ 2.  $LMTD = \frac{\Delta H_1 - \Delta T_2}{ln\left(\frac{T_1}{T_2}\right)}$
  - ☒ 3.  $LMTD = \frac{\Delta G_1 - \Delta T_2}{ln\left(\frac{T_1}{T_2}\right)}$
  - ☒ 4.  $LMTD = \frac{\Delta T_1 - \Delta T_2}{ln\left(\frac{\Delta T_1}{\Delta T_2}\right)}$

Question ID : 6009298331

**Q.8** To maintain hygiene in milk production, the temperature of hot water used for sanitization of equipment should be at least:

- Ans
- ☒ 1. 66 °C
  - ☒ 2. 77 °C
  - ☒ 3. 46 °C
  - ☒ 4. 85 °C

Question ID : 6009298327

Q.9 Resistance (R) is directly proportional to the:

- Ans
- ☒ 1. Temperature of the conducting wire
  - ☒ 2. Cross sectional area of wire
  - ☒ 3. Length of wire
  - ☒ 4. Atomic structure of the wire

Question ID : 6009298338

Q.10 According to the second law of Faraday, if  $e$  is the induced EMF in the coil, it is given by:

- Ans
- ☒ 1.  $e = T \frac{(\phi_2 - \phi_1)}{N}$
  - ☒ 2.  $\frac{t}{e} = N X (\phi_2 - \phi_1)$
  - ☒ 3.  $N = e \frac{(\phi_2 - \phi_1)}{t}$
  - ☒ 4.  $e = N \frac{(\phi_2 - \phi_1)}{t}$

Question ID : 6009298340

Q.11 Heat transfer is defined as energy-in-transit due to temperature:

- Ans
- ☒ 1. Difference
  - ☒ 2. Being Static
  - ☒ 3. Similarity
  - ☒ 4. Dormancy

Question ID : 6009298328

Q.12 Milk is concentrated using heat energy. Based on the methods of treatment of milk, which state of milk is achieved through the concentration using heat energy?

- Ans
- ☒ 1. Paneer
  - ☒ 2. Ice-cream
  - ☒ 3. Khoya
  - ☒ 4. Cheese

Question ID : 6009298345

Q.13 The performance of a heat engine is measured in terms of its thermal efficiency which is the ratio of work output to heat absorbed by engine. Which of the following representation is true for the given statement?

- Ans
- ☒ 1.  $\eta_{n+2} = \frac{w}{Q}$
  - ☒ 2.  $\eta_{th} = \frac{w}{Q}$
  - ☒ 3.  $\eta_{N+1} = \frac{w}{Q}$
  - ☒ 4.  $\eta_{n+1} = \frac{w}{Q}$

Question ID : 6009298336

Q.14 Nucleotides have three characteristic components. Which of the following is one of the components?

- Ans
- ☒ 1. Carbon
  - ☒ 2. Methionine
  - ☒ 3. Phosphate
  - ☒ 4. Hexose sugar

Question ID : 6009298342

Q.15 Absolute Volume is defined as \_\_\_\_\_dimensional space occupied by matter.

- Ans
- ☒ 1. One
  - ☒ 2. Four
  - ☒ 3. Three
  - ☒ 4. Two

Question ID : 6009298334

Q.16 What is the relative permeability of soft Iron?

- Ans
- ☒ 1. 8000
  - ☒ 2. 12000
  - ☒ 3. 6500
  - ☒ 4. 3500

Question ID : 6009298339

Q.17 With the exception of a few catalytic RNA molecules, or ribozymes, the vast majority of enzymes are:

- Ans
- ☒ 1. Fats
  - ☒ 2. Proteins
  - ☒ 3. Carbohydrates
  - ☒ 4. Minerals

Question ID : 6009298343

Q.18 An adiabatic process is one in which there is \_\_\_\_\_ of heat between a system and its surroundings.

- Ans
- ☒ 1. Reactive exchange
  - ☒ 2. No exchange
  - ☒ 3. Heterogeneous exchange
  - ☒ 4. Homogeneous exchange

Question ID : 6009298335

Q.19 There are three general mechanisms which describe multi-substrate enzyme system. Which of the following is one of them?

- Ans
- ☒ 1. Dynamic mechanism
  - ☒ 2. Inert mechanism
  - ☒ 3. Ping Pong Mechanism
  - ☒ 4. Static mechanism

Question ID : 6009298344

Q.20 The fundamental law that governs conduction heat transfer was framed by:

- Ans
- ☒ 1. Hooke
  - ☒ 2. Ohm
  - ☒ 3. Fourier
  - ☒ 4. Coulomb

Question ID : 6009298329

Section : Discipline4

Q.1 The National Dairy Development Board (NDDB) was created in the year:

- Ans
- ☒ 1. 1956
  - ☒ 2. 1965
  - ☒ 3. 1994
  - ☒ 4. 1949

Question ID : 6009298360

Q.2 Sodium alginate is a polysaccharide of guluronic acid and mannuronic acid. How is it represented?

- Ans
- ☒ 1. E401
  - ☒ 2. E407
  - ☒ 3. E410
  - ☒ 4. E412

Question ID : 6009298350

Q.3 Which of the following is a suitable location for the establishment of a Dairy plant?

- Ans
- ☐ 1. Close to cattle sheds or source of milk
  - ☒ 2. Away from environmentally polluted areas that can contaminate food
  - ☐ 3. Near state transport depots.
  - ☐ 4. Preferably near grazing pastures or forests.

Question ID : 6009298362

Q.4 By which of the following equations can Co-efficient of Performance (COP) be represented?

- Ans
- ☐ 1.  $\frac{C.O.F = \text{refrigeration effect } J/h}{\text{Work of compression } h}$
  - ☐ 2. C.O.P. = refrigeration effect kJ/h
  - ☐ 3.  $\frac{C.O.F = \text{refrigeration effect } k/h}{\text{Work of compression } kJ}$
  - ☒ 4.  $\frac{C.O.F = \text{refrigeration effect } kJ/h}{\text{Work of compression } kJ/h}$

Question ID : 6009298356

Q.5 Which of the following CANNOT be classified as a power-driven cream separator?

- Ans
- ☐ 1. Semi-closed or semi-hermetic separator
  - ☐ 2. Self-desludging separator
  - ☐ 3. Closed bowl or hermetic separator
  - ☒ 4. Gravity cream separator

Question ID : 6009298352

Q.6 Capacity of refrigeration system is expressed as \_\_\_\_\_.

- Ans
- ☐ 1. Kilo liter of refrigeration
  - ☐ 2. Kilogram of refrigeration
  - ☒ 3. Ton of refrigeration
  - ☐ 4. Quintal of refrigeration

Question ID : 6009298354

Q.7 What is the water content in percentage of a cream that contains 30 percent fat?

- Ans
- ☐ 1. 34 percent
  - ☐ 2. 20 percent
  - ☐ 3. 44 percent
  - ☒ 4. 64 percent

Question ID : 6009298351



**Q.8 Nuts and Oil seeds contain:**

- Ans ☒ 1. Vitamin E  
☒ 2. Vitamin C  
☒ 3. Vitamin D  
☒ 4. Vitamin B12

Question ID : 6009298363

**Q.9 The India District Co-operative Milk Producers' Union was registered as a response to exploitation of marginal milk producers by traders or agents at Anand on December 14 in the year:**

- Ans ☒ 1. 1999  
☒ 2. 1946  
☒ 3. 1984  
☒ 4. 1964

Question ID : 6009298359

**Q.10 Which of the following is NOT the chief factor responsible to determine what kind of cheese would be produced as final output?**

- Ans ☒ 1. Degree of souring and type of souring organisms added  
☒ 2. Similarity of the quality of milk  
☒ 3. Milling and salting of the curd before putting in the hoop or mould  
☒ 4. Temperature of renneting and subsequent cooking or scalding of the curd in the whey

Question ID : 6009298358

**Q.11 Condensed and dried milks are manufactured in commercial plants as per the legal standards prescribed by:**

- Ans ☒ 1. FICCI and BIS  
☒ 2. FSSAI and BIS  
☒ 3. AGMARK and FSSAI  
☒ 4. FoSCoS and AGMARK

Question ID : 6009298365

**Q.12 The first ice cream cone was produced by Italo Marchiony in the year:**

- Ans ☒ 1. 1900  
☒ 2. 1919  
☒ 3. 1896  
☒ 4. 1920

Question ID : 6009298349

Q.13 The word 'cheese' is derived from a \_\_\_\_\_ word.

- Ans
- ☐ 1. Greek
  - ☒ 2. Latin
  - ☐ 3. French
  - ☐ 4. German

Question ID : 6009298357

Q.14 What is the percent of protein in the chemical composition of whole milk curds (Dahi)?

- Ans
- ☐ 1. 8.2-8.4
  - ☐ 2. 4.6-4.9
  - ☒ 3. 3.2-3.4
  - ☐ 4. 1.4-1.8

Question ID : 6009298346

Q.15 To reduce the multiplication of micro-organisms and to get low bacterial count in milk and milk products, raw milk should be immediately maintained at or below:

- Ans
- ☐ 1. 7 °C
  - ☐ 2. 0 °C
  - ☒ 3. 5 °C
  - ☐ 4. 1 °C

Question ID : 6009298353

Q.16 Which of the following equation was suggested by Lamb to determine the latent heat value of food?

- Ans
- ☐ 1.  $L = m_w \times 335 \text{ (kg}^{-1}\text{)}$
  - ☐ 2.  $L = 335 \text{ (kJ kg}^{-1}\text{)}$
  - ☐ 3.  $L = m_w \times 335$
  - ☒ 4.  $L = m_w \times 335 \text{ (kJ kg}^{-1}\text{)}$

Question ID : 6009298361

Q.17 The amount of energy used by a compressor is affected by some factors. Which of the following is NOT one of the factors?

- Ans
- ☐ 1. Compressor load
  - ☒ 2. Moisture in the atmosphere
  - ☐ 3. Temperature difference of the system
  - ☐ 4. Type of compressor

Question ID : 6009298355

Q.18 The legal standard established by the Food Safety and Standards Authority of India for Paneer is:

- Ans
- ☐ 1. FSSR-2016
  - ☐ 2. FSSR-2013
  - ☐ 3. FSSR-2015
  - ☒ 4. FSSR-2011

Question ID : 6009298347

Q.19 Protein digested is expressed in terms of 'digestibility coefficient'. Which of the following expressions represents the phenomenon?

- Ans
- ☐ 1.

Digestibility Coefficient= Protein intake (g) – protein lost in digestion (g)  $\times$  75

- ☐ 2.

Digestibility Coefficient= Protein intake (g) – protein lost in digestion (g)  $\times$  50

- ☒ 3.

Digestibility Coefficient= Protein intake (g) – protein lost in digestion (g)  $\times$  100

- ☐ 4.

Digestibility Coefficient= Protein intake (g) – protein lost in digestion (g)  $\times$  25

Question ID : 6009298364

Q.20 Who patented the Hand-cranked ice cream freezer in the 1840's?

- Ans
- ☐ 1. Carl von Linde
  - ☐ 2. Jacob Fussel
  - ☒ 3. Nancy Johnson
  - ☐ 4. Marco Polo

Question ID : 6009298348

Section : Discipline5

Q.1 There are various advantages derived by the management from a good system of costing. Which of the following is one of them?

- Ans
- ☐ 1. Cost accounting helps in making monopolistic estimates of market
  - ☐ 2. Cost accounting helps in eliminating competition
  - ☒ 3. Cost accounting aids price fixation
  - ☐ 4. Cost accounting helps in estimating the future inventory

Question ID : 6009298378

**Q.2** Based on the nature of the heat transfer surface, which of the following cannot be classified as evaporators?

- Ans
- ☒ 1. Stationary cylindrical surfaces with scraped surface evaporator
  - ☒ 2. Tubular surfaces with natural or forced circulation
  - ☒ 3. Hyperbolic surfaces with artificial circulation
  - ☒ 4. Flat heating surfaces

Question ID : 6009298372

**Q.3** In the word Extension, “ex” meaning “out”; and, “tensio” meaning “stretching” has its roots in which of the following languages?

- Ans
- ☒ 1. German
  - ☒ 2. French
  - ☒ 3. Latin
  - ☒ 4. Sanskrit

Question ID : 6009298382

**Q.4** When was Statistical Quality Control developed?

- Ans
- ☒ 1. During the French Revolution
  - ☒ 2. During World War II
  - ☒ 3. During World War I
  - ☒ 4. During the Cold War

Question ID : 6009298385

**Q.5** Percentage of bacteria which can be removed by Microfiltration technique is:

- Ans
- ☒ 1. 85 percent
  - ☒ 2. 99.6 percent
  - ☒ 3. 23 percent
  - ☒ 4. 63 percent

Question ID : 6009298367

**Q.6** The subject OPERATIONS RESEARCH is a branch of \_\_\_\_\_.

- Ans
- ☒ 1. Physics
  - ☒ 2. Account keeping
  - ☒ 3. Literature
  - ☒ 4. Mathematics

Question ID : 6009298379

Q.7 Where did Gandhiji establish the Sevagram Ashram?

- Ans
- ☐ 1. Marthandam
  - ☐ 2. Kolkata
  - ☐ 3. Sunderban
  - ☒ 4. Wardha

Question ID : 6009298384

Q.8 Which of the following is not a property of Falling film Evaporators?

- Ans
- ☒ 1. More fouling problem
  - ☐ 2. More overall heat transfer coefficient
  - ☐ 3. Less residence time
  - ☐ 4. Higher vacuum is possible

Question ID : 6009298373

Q.9 The information on a food package conveys relevant data to consumers. What data does the package convey?

- Ans
- ☐ 1. How the product tastes
  - ☐ 2. The texture of the product
  - ☒ 3. Cooking instructions to be followed
  - ☐ 4. Ethics of the production process

Question ID : 6009298375

Q.10 Costing is the techniques and processes of ascertaining:

- Ans
- ☐ 1. Revenue
  - ☒ 2. costs
  - ☐ 3. Profit
  - ☐ 4. Loss

Question ID : 6009298377

Q.11 Jelen (1985) maintains that primary packages should have certain characteristics to facilitate the sale of products. Which of the following is NOT one of them?

- Ans
- ☐ 1. Non-toxic
  - ☐ 2. Sanitary
  - ☐ 3. Lightweight
  - ☒ 4. Simple

Question ID : 6009298376

Q.12 Skimmed milk is produced by separation of \_\_\_\_\_ from milk in dairy processing.

- Ans
- ☐ 1. Cholesterol
  - ☐ 2. Casein
  - ☐ 3. Water
  - ☒ 4. Cream

Question ID : 6009298368

Q.13 The teaching of extension education at undergraduate level at the College of Agriculture, Calcutta University started in the year:

- Ans
- ☐ 1. 1940
  - ☒ 2. 1950
  - ☐ 3. 1970
  - ☐ 4. 1960

Question ID : 6009298381

Q.14 Which of the following is a technical function of packaging?

- Ans
- ☒ 1. Protection
  - ☐ 2. Promotion
  - ☐ 3. Display
  - ☐ 4. Communication

Question ID : 6009298374

Q.15 Which of the following is NOT a property of linear programming model?

- Ans
- ☐ 1. The model must have non-negativity constraint
  - ☐ 2. The model must have an objective function
  - ☐ 3. The model must have structural constraints
  - ☒ 4. The relationship between variables and constraints must be binary

Question ID : 6009298380

Q.16 The quality of raw milk to be used should be judged with respect to which one of the following criteria.

- Ans
- ☐ 1. Requirement of similar quality criteria for each end use
  - ☒ 2. Relationship of milk quality with finished product quality
  - ☐ 3. The geographical region from where milk has been sourced
  - ☐ 4. The quality criteria appropriate for traditional technology

Question ID : 6009298366

Q.17 Which of the following is a feature of extension education?

- Ans
- ☐ 1. The teacher starts with theory and works up to practical.
  - ☒ 2. Programmes are flexible and based on needs and expressed desires of people
  - ☐ 3. Students study subjects.
  - ☐ 4. Students need to adapt themselves to the fixed curriculum offered.

Question ID : 6009298383

Q.18 Which of the following factor is not important for evaporation process?

- Ans
- ☒ 1. Heat insensitivity
  - ☐ 2. Scale formation
  - ☐ 3. Foaming
  - ☐ 4. Concentration

Question ID : 6009298371

Q.19 The maximum permitted fat content in skimmed milk powder is:

- Ans
- ☐ 1. 1 percent
  - ☒ 2. 1.5 percent
  - ☐ 3. 26 percent
  - ☐ 4. 5 percent

Question ID : 6009298369

Q.20 Which one of the following nutrients is lacking in the Meat Food Group?

- Ans
- ☒ 1. Dietary Fibre
  - ☐ 2. B-Complex vitamins
  - ☐ 3. Iron
  - ☐ 4. Phosphorous

Question ID : 6009298370

Section : Discipline6

Q.1 The Special journal or subsidiary books are of 7 types. Which of the following is one of them?

- Ans
- ☐ 1. Profit and loss account
  - ☐ 2. Cash reconciliation
  - ☒ 3. Sales book
  - ☐ 4. Balance Sheet

Question ID : 6009298400

**Q.2 Which of the following enzymes is NOT important in the Dairy industry?**

- Ans
- ☒ 1. Proteases
  - ☐ 2. Amylases
  - ☒ 3. Lipases
  - ☒ 4. Rennet

Question ID : 6009298390

**Q.3 Which of the following cannot be said to be the key challenges for speedy and effective implementation of Food Safety and Standard Act 2006?**

- Ans
- ☒ 1. Infrastructure creation
  - ☒ 2. Awareness creation
  - ☐ 3. Market Standardization
  - ☒ 4. Building research & development capacity

Question ID : 6009298397

**Q.4 Starter cultures are \_\_\_\_\_ or fungal strains either pure or mixed, used to initiate a fermentation process.**

- Ans
- ☒ 1. Algal
  - ☒ 2. Protozoa
  - ☐ 3. Bacterial
  - ☒ 4. Viral

Question ID : 6009298391

**Q.5 There is certain purpose of communication. Which of the following is one of them?**

- Ans
- ☐ 1. To inform
  - ☒ 2. To self analyse
  - ☒ 3. To analyse the society
  - ☒ 4. To perform

Question ID : 6009298405

**Q.6 The central dogma of life was first visualized by Francis Crick during the year 1958 which refers to the fact that hereditary information normally travels in:**

- Ans
- ☐ 1. one direction only
  - ☒ 2. Two directions only
  - ☒ 3. Three directions only
  - ☒ 4. Multi directions

Question ID : 6009298388



Q.7 Which among the following is NOT a main function of financial management?

- Ans
- ☐ 1. Investment decision
  - ☐ 2. Raising funds
  - ☐ 3. Liquidity decisions
  - ☒ 4. Creation of physical assets

Question ID : 6009298398

Q.8 The term 'Biotechnology' was coined by:

- Ans
- ☒ 1. Karl Ereky
  - ☐ 2. Gregor Mendel
  - ☐ 3. Franklyn Stahl
  - ☐ 4. James Watson

Question ID : 6009298387

Q.9 There are seven original SI units for basic physical quantities. Select the option that is not an SI base unit.

- Ans
- ☐ 1. Metre
  - ☐ 2. Candela
  - ☐ 3. Kilogram
  - ☒ 4. Litre

Question ID : 6009298393

Q.10 \_\_\_\_\_ is directed towards a relatively large, heterogeneous and anonymous audience.

- Ans
- ☐ 1. Interpersonal Communication
  - ☒ 2. Mass Communication
  - ☐ 3. Organizational Communication
  - ☐ 4. Group Communication

Question ID : 6009298404

Q.11 Which among the following is the goal of financial management?

- Ans
- ☐ 1. Conducting market survey
  - ☐ 2. Keeping client Records
  - ☒ 3. Profit Maximization
  - ☐ 4. Managing Board of Management

Question ID : 6009298399

Q.12 The conclusion of the Uruguay Round of Multilateral Trade Negotiations in Marrakech led to the establishment of the WTO on \_\_\_\_\_.

- Ans
- ☒ 1. 1 January 1998
  - ☒ 2. 1 January 1996
  - ☒ 3. 1 January 1995
  - ☒ 4. 1 January 1997

Question ID : 6009298395

Q.13 "The assembly of all planned and systematic actions necessary to provide adequate confidence that a product, process, or service will satisfy given quality requirements." The above is the definition of:

- Ans
- ☒ 1. AGMARK
  - ☒ 2. ISO
  - ☒ 3. ISI MARK
  - ☒ 4. TRADE MARK

Question ID : 6009298396

Q.14 Which of the following is NOT a part of the concept of marketing?

- Ans
- ☒ 1. Selling concept
  - ☒ 2. Product concept
  - ☒ 3. Consumer concept
  - ☒ 4. Production concept

Question ID : 6009298401

Q.15 Dairy processing unit operations mainly involve few processes. Select the odd one which does NOT form the part of the process?

- Ans
- ☒ 1. cooling
  - ☒ 2. fermenting
  - ☒ 3. heating
  - ☒ 4. separating

Question ID : 6009298392

Q.16 Which of the following is a Transactional function of marketing?

- Ans
- ☒ 1. Product financing by providing capital.
  - ☒ 2. Transportation storage and physical handling of goods
  - ☒ 3. Personal selling
  - ☒ 4. Selecting a distribution channel

Question ID : 6009298402

Q.17 The consumer buying process has four steps. Which of the following is one of them?

- Ans
- ☐ 1. Finding the source of the produce
  - ☐ 2. Product manufacturing ethics
  - ☐ 3. Problem creation
  - ☒ 4. Information search and evaluation

Question ID : 6009298403

Q.18 The measurement systems and the instruments may be classified based upon the functions they perform. Select the option that does NOT form a part of them?

- Ans
- ☒ 1. Releasing Function
  - ☐ 2. Signal Processing
  - ☐ 3. Indicating Function
  - ☐ 4. Recording Function

Question ID : 6009298394

Q.19 The thermal cycler also known as \_\_\_\_\_ machine or DNA amplifier is an equipment which is used for the amplification of a gene.

- Ans
- ☐ 1. RBC
  - ☐ 2. WBC
  - ☐ 3. RNC
  - ☒ 4. PCR

Question ID : 6009298389

Q.20 Which of the following parameters is taken into consideration while fixing Legal Standards?

- Ans
- ☐ 1. Adulterants
  - ☐ 2. Traditional technology
  - ☐ 3. Pricing strategy
  - ☒ 4. Bacteriological quality

Question ID : 6009298386

Section : Discipline7

Q.1 The Kelvin and Celsius scales are related by which of the following function?

- Ans
- ☐ 1.  $T(K) = T(^{\circ}C)$
  - ☒ 2.  $T(K) = T(^{\circ}C) + 273.15$
  - ☐ 3.  $T(K) + 273.15 = T(^{\circ}C)$
  - ☐ 4.  $T(K) = T + 73.15$

Question ID : 6009298407

**Q.2** The process that breaks down the intermolecular bonds of starch molecules in the presence of water and heat, allowing the hydrogen bonding sites (the hydroxyl hydrogen and oxygen) to engage more water is called:

- Ans
- ☐ 1. Caramelization
  - ☐ 2. Maillard reaction
  - ☐ 3. Retrogradation of starch
  - ☒ 4. Gelatinization of starch

Question ID : 6009298411

**Q.3** If the hydroxyl group on the penultimate carbon is on the right-hand side of the carbon chain when the aldehyde or ketone group is written at the top of the formula, it belongs to the D family and if on the left-hand side, it belongs to:

- Ans
- ☐ 1. R family
  - ☒ 2. L family
  - ☐ 3. A family
  - ☐ 4. K family

Question ID : 6009298425

**Q.4** The term 'unit operations' was established by Professor Arthur D Little of the Massachusetts Institute of Technology, in the year:

- Ans
- ☐ 1. 1913
  - ☐ 2. 1914
  - ☐ 3. 1916
  - ☒ 4. 1915

Question ID : 6009298408

**Q.5** The number of carbon atoms present in the simple sugar triose is:

- Ans
- ☐ 1. 4
  - ☒ 2. 3
  - ☐ 3. 1
  - ☐ 4. 2

Question ID : 6009298424

**Q.6** Some microbes belonging to the Genus Candida can form:

- Ans
- ☐ 1. Conidiospores
  - ☐ 2. Sporangiospores
  - ☐ 3. Ascospores
  - ☒ 4. Chlamydospores

Question ID : 6009298415

Q.7 In a manufacturing unit, the production manager must have sound knowledge of \_\_\_\_\_ and their characteristics.

- Ans
- ☒ 1. the market
  - ☒ 2. materials
  - ☒ 3. products
  - ☒ 4. labour available

Question ID : 6009298422

Q.8 Food-borne molds are filamentous fungi that grow in the form of \_\_\_\_\_ that spreads rapidly and may cover several inches of area in a very short period.

- Ans
- ☒ 1. Circular mass
  - ☒ 2. Zig-zag lines
  - ☒ 3. Straight unbranched filaments
  - ☒ 4. tangled mass

Question ID : 6009298417

Q.9 Lami's Theorem is represented mathematically by \_\_\_\_\_.

- Ans
- ☒ 1.  $\frac{P}{\sin\alpha} = \frac{Q}{\sin\beta} = \frac{R}{\sin\gamma}$
  - ☒ 2.  $\frac{P}{\sin\alpha} = \frac{Q}{\sin\beta}$
  - ☒ 3.  $P = \frac{Q}{\sin\beta} = \frac{R}{\sin\gamma}$
  - ☒ 4.  $\frac{P}{\sin\alpha} = \frac{Q}{\sin\beta} = R$

Question ID : 6009298410

Q.10 Kinematics is \_\_\_\_\_.

- Ans
- ☒ 1. a study of the basic laws for the displacement of a particle
  - ☒ 2. a branch of mechanics which deals with the study of forces on a body which is at rest
  - ☒ 3. a study of motion and forces on a body which is in motion
  - ☒ 4. the study of forces and the displacement of bodies, without addressing the cause of movement

Question ID : 6009298409

Q.11 'A force of one newton produces an acceleration of \_\_\_\_\_ on an object of mass 1 kg.

- Ans
- ☒ 1. 2 m/s<sup>2</sup>
  - ☒ 2. 4 m/s<sup>2</sup>
  - ☒ 3. 1 m/s<sup>2</sup>
  - ☒ 4. 3 m/s<sup>2</sup>

Question ID : 6009298406

Q.12 A psychophysical method to estimate the absolute intensity of a stimulus or a categorical judgment based on an observer's experience is called:

- Ans
- ☒ 1. Absolute Judgment
  - ☒ 2. Acceptance
  - ☒ 3. Affective Response
  - ☒ 4. Acuity

Question ID : 6009298420

Q.13 In the 1940s, the central role of ATP in biological systems was described by:

- Ans
- ☒ 1. Watson and Crick
  - ☒ 2. Sir Hans Adolf Krebs
  - ☒ 3. Eduard Buchner
  - ☒ 4. Fritz Albert Lipmann

Question ID : 6009298423

Q.14 Yeasts may be viewed as being \_\_\_\_\_ fungi in contrast to molds.

- Ans
- ☒ 1. multicellular
  - ☒ 2. bicellular
  - ☒ 3. complex cell
  - ☒ 4. unicellular

Question ID : 6009298414

Q.15 Which one of the following vegetables is actually a Fungi?

- Ans
- ☒ 1. Sea Lettuce
  - ☒ 2. Beetroot
  - ☒ 3. Mushroom
  - ☒ 4. Onion

Question ID : 6009298413

Q.16 Dextrins are a group of \_\_\_\_\_ carbohydrates produced by the hydrolysis of starch.

- Ans
- ☐ 1. high-matter-weight
  - ☐ 2. low-matter-weight
  - ☐ 3. High-molecular-weight
  - ☒ 4. low-molecular-weight

Question ID : 6009298412

Q.17 Which of the following is an intrinsic sensory attribute of food products?

- Ans
- ☐ 1. Advertisement
  - ☐ 2. Origin
  - ☒ 3. Color
  - ☐ 4. Price

Question ID : 6009298419

Q.18 Debaromyces, one of the most prevalent yeast genera in dairy products can grow at a  $a_w$  as low as 0.65 and salt concentration of:

- Ans
- ☒ 1. 24%
  - ☐ 2. 20%
  - ☐ 3. 15%
  - ☐ 4. 10%

Question ID : 6009298416

Q.19 Deciding in advance what is to be done, when it is to be done and how it is to be done is called:

- Ans
- ☐ 1. Staffing
  - ☒ 2. Planning
  - ☐ 3. Directing
  - ☐ 4. Controlling

Question ID : 6009298421

Q.20 Which of the following CANNOT be considered as an advantage of a good plant layout?

- Ans
- ☐ 1. It reduces indirect manufacturing cost by decreasing spoilage under difficult handling situation.
  - ☐ 2. It reduces cost of handling by direct labour and hence increases productivity per man hour
  - ☐ 3. It reduces the effort in normal material handling of a worker.
  - ☒ 4. It reduces the mechanical effort.

Question ID : 6009298418

Q.1 The use of salicylic acid as a preservative is:

- Ans
- ☐ 1. permitted
  - ☐ 2. permitted in special cases
  - ☐ 3. hazardous
  - ☒ 4. not permitted

Question ID : 6009298433

Q.2 Which spp. forms septate mycelia with conidiophores and large brown conidia and causes brown to black rots of fruits, apples, and figs.

- Ans
- ☒ 1. *Alternaria*
  - ☐ 2. *Geotrichum*
  - ☐ 3. *Trichothecium*
  - ☐ 4. *Rhizopus*

Question ID : 6009298429

Q.3 Which Gram-positive, catalase-positive bacterium commonly found in soil is also known as hay bacillus or grass bacillus.

- Ans
- ☒ 1. *Bacillus subtilis*
  - ☐ 2. *Corynebacterium*
  - ☐ 3. *Bacillus cereus*
  - ☐ 4. *Carnobacterium*

Question ID : 6009298428

Q.4 Substances to be analysed by Gas Chromatography must be volatile and must be thermally stable below:

- Ans
- ☐ 1. 450 Degree C
  - ☐ 2. 400 Degree C
  - ☐ 3. 375 Degree C
  - ☒ 4. 350 Degree C

Question ID : 6009298434

Q.5 Some of the mycotoxins regularly analyzed in food samples include:

- Ans
- ☐ 1. Aflatoxin K
  - ☐ 2. Aflatoxin C
  - ☒ 3. Aflatoxin B1
  - ☐ 4. Aflatoxin D

Question ID : 6009298435



Q.6 Which of the following is a class I additive?

- Ans
- ☐ 1. Benzoic acid and its salts
  - ☐ 2. Nisin
  - ☐ 3. Sulphurous acid and its salts
  - ☒ 4. Honey

Question ID : 6009298431

Q.7 In HPLC Method, Benzoic acid is extracted and separated by liquid chromatography (LC) on C18 column, detected by ultra violet absorbance at \_\_\_\_\_, and quantitated by standard calibration plot.

- Ans
- ☐ 1. 250 nm
  - ☐ 2. 270 nm
  - ☒ 3. 230 nm
  - ☐ 4. 200 nm

Question ID : 6009298432

Q.8 Erwinia is a genus of the family Enterobacteriaceae bacteria containing mostly \_\_\_\_\_ pathogens.

- Ans
- ☐ 1. Animal
  - ☐ 2. Soil
  - ☐ 3. Water
  - ☒ 4. Plant

Question ID : 6009298427

Q.9 The furanose ring structure is formed by interaction of carbonyl carbon with the hydroxyl group attached to the \_\_\_\_\_ carbon.

- Ans
- ☐ 1. sixth carbon
  - ☐ 2. fifth carbon
  - ☐ 3. eighth carbon
  - ☒ 4. fourth carbon

Question ID : 6009298426

Q.10 Under favourable conditions, in a laboratory, a growing bacterial population \_\_\_\_\_ at regular intervals.

- Ans
- ☐ 1. Multiplies slowly
  - ☐ 2. Remains stagnant
  - ☒ 3. Doubles
  - ☐ 4. Triples

Question ID : 6009298430

Q.1 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

We couldn't help to laugh when he told a funny incident.

- Ans
- ☒ 1. No substitution required
  - ☒ 2. to laughing
  - ☒ 3. laugh
  - ☒ 4. laughing

Question ID : 6009298448

Q.2 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The captain in addition to twenty sailors were on the boat when it capsized.

- Ans
- ☒ 1. The captain with twenty sailors
  - ☒ 2. Neither the captain nor the sailors
  - ☒ 3. The captain along with twenty sailors
  - ☒ 4. No substitution required

Question ID : 6009298447

Q.3 Select the most appropriate option to fill in the blank.

The elephant \_\_\_\_\_ leg got caught in a trap, trumpeted loudly.

- Ans
- ☒ 1. whom
  - ☒ 2. whose
  - ☒ 3. who
  - ☒ 4. which

Question ID : 6009298451

Q.4 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.


You played in the afternoon for one hour, have you?

- Ans
- ☒ 1. didn't you
  - ☒ 2. did you
  - ☒ 3. no substitution required
  - ☒ 4. haven't you

Question ID : 6009298441

**Q.5** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

We have been staying in this house since September 2010.

**Ans**  1. No substitution required

 2. for

 3. from about

 4. from

Question ID : 6009298443

**Q.6** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. has been busted
- B. and selling them as used cars
- C. from different areas of Delhi
- D. a gang that was stealing cars

**Ans**  1. DCBA

 2. DBCA

 3. DBAC

 4. DABC

Question ID : 6009298455

**Q.7** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

All flights on this route / has been diverted / to Mumbai.

**Ans**  1. All flights on this route

 2. has been diverted

 3. No error

 4. to Mumbai

Question ID : 6009298437

**Q.8** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The company is looking / for someone which has / an MBA degree.

**Ans**  1. for someone which has

 2. The company is looking

 3. No error

 4. an MBA degree

Question ID : 6009298440

**Q.9** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

There is / a bus stop / by the end of the road.

- Ans
- ☒ 1. No error
  - ☒ 2. a bus stop
  - ☒ 3. by the end of the road
  - ☒ 4. There is

Question ID : 6009298439

**Q.10** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The town / where I was born / had a big grain market.

- Ans
- ☒ 1. had a big grain market
  - ☒ 2. The town
  - ☒ 3. No error
  - ☒ 4. where I was born

Question ID : 6009298438

**Q.11** Select the most appropriate option to fill in the blank.

I will return your book as soon as I have finished \_\_\_\_\_ it.

- Ans
- ☒ 1. reading
  - ☒ 2. to read
  - ☒ 3. reads
  - ☒ 4. read

Question ID : 6009298450

**Q.12** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. the court has asked the government
- B. and also questioned
- C. to submit a report
- D. why the case was not filed against the hospital

- Ans
- ☒ 1. ABDC
  - ☒ 2. ABCD
  - ☒ 3. ADCB
  - ☒ 4. ACBD

Question ID : 6009298454

Q.13 Select the most appropriate option to fill in the blanks.

She paused at \_\_\_\_\_ gate for a while and then rang \_\_\_\_\_ door bell.

- Ans
- ☒ 1. a; the
  - ☒ 2. the; the
  - ☒ 3. the; no word required
  - ☒ 4. the; a

Question ID : 6009298449

Q.14 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

He went to all the drugstores / but he did not got / the medicine.

- Ans
- ☒ 1. He went to all the drugstores
  - ☒ 2. the medicine
  - ☒ 3. No error
  - ☒ 4. but he did not got

Question ID : 6009298436

Q.15 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Except Neha and Kuhu, there were three more children in the park.

- Ans
- ☒ 1. Beside
  - ☒ 2. No substitution required
  - ☒ 3. Besides
  - ☒ 4. Without

Question ID : 6009298445

Q.16 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

People got down from the train no sooner the train stopped.

- Ans
- ☒ 1. as soon as
  - ☒ 2. no substitution required
  - ☒ 3. while
  - ☒ 4. till

Question ID : 6009298446

Q.17 Select the most appropriate option to fill in the blank.

Before giving him more money, find out \_\_\_\_\_ he wants it.

- Ans
- ☒ 1. that
  - ☒ 2. what
  - ☒ 3. how
  - ☒ 4. why

Question ID : 6009298453

Q.18 Select the most appropriate option to fill in the blank.

\_\_\_\_\_ students have shown interest in playing chess.

- Ans
- ☒ 1. Many
  - ☒ 2. Much
  - ☒ 3. Any
  - ☒ 4. Little

Question ID : 6009298452

Q.19 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

They were tired as they had work on the night.

- Ans
- ☒ 1. had worked through
  - ☒ 2. No substitution required
  - ☒ 3. had worked on
  - ☒ 4. have worked across

Question ID : 6009298444

Q.20 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

I had never heard a more funnier story before.

- Ans
- ☒ 1. a funnier story
  - ☒ 2. the funniest
  - ☒ 3. the most funny
  - ☒ 4. No substitution required

Question ID : 6009298442

Section : English Language & Comprehension2

**Q.1** Select the option that can be used as a one-word substitute for the given group of words.

A place where sheep are kept

- Ans
- ☒ 1. Coop
  - ☒ 2. Pen
  - ☒ 3. Kennel
  - ☒ 4. Den

Question ID : 6009298473

**Q.2** Select the most appropriate meaning of the given idiom.

To get wind of

- Ans
- ☒ 1. To enjoy a nice weather
  - ☒ 2. To gain something unfairly
  - ☒ 3. To be clear about something
  - ☒ 4. To learn something about a secret

Question ID : 6009298470

**Q.3** Select the most appropriate synonym of the given word.

Agile

- Ans
- ☒ 1. Energetic
  - ☒ 2. Angry
  - ☒ 3. Quiet
  - ☒ 4. Stiff

Question ID : 6009298460

**Q.4** Select the most appropriate ANTONYM of the given word.

Irksome

- Ans
- ☒ 1. Pleasing
  - ☒ 2. Forgiving
  - ☒ 3. Annoying
  - ☒ 4. Tireless

Question ID : 6009298461

**Q.5** Select the most appropriate ANTONYM of the given word.

Scrap

- Ans
- ☒ 1. Abandon
  - ☒ 2. Discard
  - ☒ 3. Reinstate
  - ☒ 4. Drop

Question ID : 6009298462

**Q.6** Select the option that can be used as a one-word substitute for the given group of words. Select the most appropriate word for the given group of words.

The sound made by crickets

- Ans ☒ 1. Chirp  
☒ 2. Croak  
☒ 3. Caw  
☒ 4. Cluck

Question ID : 6009298474

**Q.7** Select the most appropriate phrase to fill in the blank.

The police had \_\_\_\_\_ road-blocks on the national highway.

- Ans ☒ 1. set up  
☒ 2. set in  
☒ 3. set about  
☒ 4. set out

Question ID : 6009298468

**Q.8** Select the option that can be used as a one-word substitute for the given group of words.

A group of puppies

- Ans ☒ 1. Herd  
☒ 2. Litter  
☒ 3. Pack  
☒ 4. Gang

Question ID : 6009298472

**Q.9** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. who was confirmed positive  
B. LNJP Hospital has created a special ward  
C. for isolating a 33 year old man  
D. for the South African variant of the novel corona virus

- Ans ☒ 1. BCAD  
☒ 2. BDAC  
☒ 3. BDCA  
☒ 4. BADC

Question ID : 6009298456



Q.10 Select the most appropriate phrase to fill in the blank.

It was difficult for the villagers to \_\_\_\_\_ the fire by themselves.

- Ans
- ☒ 1. put out
  - ☐ 2. put up
  - ☐ 3. put off
  - ☐ 4. put down

Question ID : 6009298467

Q.11 Select the most appropriate synonym of the given word.

Endorse

- Ans
- ☐ 1. Impose
  - ☒ 2. Approve
  - ☐ 3. Award
  - ☐ 4. Endure

Question ID : 6009298464

Q.12 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. against symptomatic Covid-19 patients
- B. the Oxford –AstraZeneca vaccine
- C. according to the World Health Organisation
- D. has an efficacy of 63.09 per cent

- Ans
- ☐ 1. BDCA
  - ☐ 2. CADB
  - ☐ 3. ACDB
  - ☒ 4. CBDA

Question ID : 6009298457

Q.13 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. The first successful video calling was done in the 1930s.
- B. People first got the idea of video calling in the late 1890s but they did not know how to do it.
- C. A US company made a Television-Phone in 1955 on which people could see each other when they called.
- D. But the video was very bad.

- Ans
- ☐ 1. BCDA
  - ☐ 2. ABCD
  - ☐ 3. CDBA
  - ☒ 4. BADC

Question ID : 6009298458

Q.14 Select the INCORRECTLY spelt word.

- Ans
- ☒ 1. Numerous
  - ☐ 2. Scrupolous
  - ☒ 3. Populous
  - ☒ 4. Humorous

Question ID : 6009298475

Q.15 Select the most appropriate synonym of the given word.

Impudent

- Ans
- ☐ 1. Rude
  - ☒ 2. Polite
  - ☒ 3. Modest
  - ☒ 4. Careful

Question ID : 6009298463

Q.16 Select the most appropriate meaning of the given idiom.

Head and shoulders above

- Ans
- ☒ 1. To be much taller
  - ☐ 2. To be far superior
  - ☒ 3. To be extremely jealous
  - ☒ 4. To be odd

Question ID : 6009298471

Q.17 Select the most appropriate ANTONYM of the given word.

Curtail

- Ans
- ☒ 1. Express
  - ☒ 2. Restrain
  - ☒ 3. Whisper
  - ☐ 4. Lengthen

Question ID : 6009298465

Q.18 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. Did you know that it is possible to build a boat entirely from cardboard?
- B. They used around 300 old boxes that they found in bins near their workshop and bits of wood to clamp on a little outboard – almost everything was from waste packaging, including their flag which they made from bubble wrap.
- C. Over ten days, two savvy recyclers from England named Harry and Charlie turned their dream of a cardboard houseboat into a reality.
- D. They successfully launched the boat into the Thames and sailed down the river to London to launch a design festival.

- Ans
- ☒ 1. BDCA
  - ☒ 2. ABDC
  - ☒ 3. CDBA
  - ☒ 4. ACBD

Question ID : 6009298459

Q.19 Select the INCORRECTLY spelt word.

- Ans
- ☒ 1. Mediam
  - ☒ 2. Meddle
  - ☒ 3. Media
  - ☒ 4. Meditate

Question ID : 6009298466

Q.20 Select the most appropriate phrase to fill in the blank.

I would not like to \_\_\_\_\_ the details of this issue.

- Ans
- ☒ 1. go out of
  - ☒ 2. go down with
  - ☒ 3. go forth
  - ☒ 4. go into

Question ID : 6009298469

Section : English Language & Comprehension3

Q.1 Select the INCORRECTLY spelt word.

- Ans
- ☒ 1. Vigourious
  - ☒ 2. Furious
  - ☒ 3. Anxious
  - ☒ 4. Precious

Question ID : 6009298476

**Q.2** Select the option that can be used as a one-word substitute for the given group of words.

An imaginary line about which a body rotates

- Ans
- ☒ 1. Orbit
  - ☒ 2. Equator
  - ☒ 3. Axis
  - ☒ 4. Eclipse

Question ID : 6009298480

**Q.3** Select the option that can be used as a one-word substitute for the given group of words.

To treat food to prevent its decomposition

- Ans
- ☒ 1. Protect
  - ☒ 2. Pretend
  - ☒ 3. Preserve
  - ☒ 4. Prepare

Question ID : 6009298479

**Q.4** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

Don't promise anything / if you are hundred per cent / sure of it.

- Ans
- ☒ 1. No error
  - ☒ 2. if you are hundred per cent
  - ☒ 3. Don't promise anything
  - ☒ 4. sure of it

Question ID : 6009298477

**Q.5** Parts of the given sentence have been given as options. One of them contains a grammatical error. Select the option that has the error.

The plumber has just finished to repair the leaking tap.

- Ans
- ☒ 1. has just finished
  - ☒ 2. The plumber
  - ☒ 3. the leaking tap
  - ☒ 4. to repair

Question ID : 6009298478

### Comprehension:

Read the following passage and answer the questions given after it.

On March 2, professor Manoj Kumar Singh from Delhi University's department of anthropology got an email from a student in Lucknow about a few artifacts being found in Umra village in Sultanpur district. After assessment and excavation, a team of researchers has likely discovered a human settlement from 6th to 7th century BCE.

Based on the terracotta structures, charred foodgrains, animal bones and pottery, an archaeologist from Archaeological Survey of India (ASI) reached the conclusion that the settlement could have been a part of the ancient trade route towards Allahabad.

Lucknow student, Kartik Mani Tripathi, discovered the ancient remains on land that was dug up for an Uttar Pradesh government-sponsored highway project. "Kartik sent mails to many authorities, including ASI, but got no response. He then emailed me on March 2. The next day, two of my researchers, Sudeshna Biswas and Ravinder, reached the spot," said Singh.

Biswas said the site was in a hamlet called Jawahar ka Purwa. "We found remains of pottery, potsherds, grains, bricks and bones and reported it to our professor. He then led an immediate preliminary investigation of the unreported remains. The site located on a raised platform close to Gomti river, might have been a permanent settlement," she added.

Singh said locals called the place "Itawah", or locale of bricks. "The villagers had found mounds of large unusual bricks. They had used mud, potsherds and other precious debris and bricks to build their houses. The bricks were huge and heavy compared with contemporary ones. Due to their longevity, almost every house in the area had used them," he added.

"The potsherds were of various designs and had been stylised with concentric circles, fishnet wavy patterns, circles, and geometric as well as non-geometric designs. The exploration yielded a variety of raw materials, predominantly red ware. The other relatively scarce sherds were of black ware and polished black ware," said Biswas. The archeologist with ASI said, "The photographs of the potsherds clearly show that they are of the northern black polished ware culture, which was prevalent in the first millennia BCE. We can safely say that the site belongs to around the 7th Century BCE in the Kushana period." "The entire region is rich in history. This was also the period when Buddha was travelling. In those times, cities were flourishing. This could be the part of a trade route, which makes it significant. We hope to find more such sites," he added.

#### SubQuestion No : 6

Q.6 The passage is mainly about:

- Ans
- ☒ 1. the use of archaeologically precious materials by the villagers
  - ☒ 2. the discovery of a human settlement from 6th to 7th century BCE
  - ☒ 3. the email sent by a Lucknow university student to a professor
  - ☒ 4. the excavations at the UP government-sponsored highway project site

Question ID : 6009298482

### Comprehension:

Read the following passage and answer the questions given after it.

On March 2, professor Manoj Kumar Singh from Delhi University's department of anthropology got an email from a student in Lucknow about a few artifacts being found in Umra village in Sultanpur district. After assessment and excavation, a team of researchers has likely discovered a human settlement from 6th to 7th century BCE.

Based on the terracotta structures, charred foodgrains, animal bones and pottery, an archaeologist from Archaeological Survey of India (ASI) reached the conclusion that the settlement could have been a part of the ancient trade route towards Allahabad.

Lucknow student, Kartik Mani Tripathi, discovered the ancient remains on land that was dug up for an Uttar Pradesh government-sponsored highway project. "Kartik sent mails to many authorities, including ASI, but got no response. He then emailed me on March 2. The next day, two of my researchers, Sudeshna Biswas and Ravinder, reached the spot," said Singh.

Biswas said the site was in a hamlet called Jawahar ka Purwa. "We found remains of pottery, potsherds, grains, bricks and bones and reported it to our professor. He then led an immediate preliminary investigation of the unreported remains. The site located on a raised platform close to Gomti river, might have been a permanent settlement," she added.

Singh said locals called the place "Itawah", or locale of bricks. "The villagers had found mounds of large unusual bricks. They had used mud, potsherds and other precious debris and bricks to build their houses. The bricks were huge and heavy compared with contemporary ones. Due to their longevity, almost every house in the area had used them," he added.

"The potsherds were of various designs and had been stylised with concentric circles, fishnet wavy patterns, circles, and geometric as well as non-geometric designs. The exploration yielded a variety of raw materials, predominantly red ware. The other relatively scarce sherds were of black ware and polished black ware," said Biswas. The archeologist with ASI said, "The photographs of the potsherds clearly show that they are of the northern black polished ware culture, which was prevalent in the first millennia BCE. We can safely say that the site belongs to around the 7th Century BCE in the Kushana period." "The entire region is rich in history. This was also the period when Buddha was travelling. In those times, cities were flourishing. This could be the part of a trade route, which makes it significant. We hope to find more such sites," he added.

#### SubQuestion No : 7

Q.7 Find the correct order of events.

- A. Preliminary investigation by researchers from Delhi University
- B. Discovery of ancient remains by a student of Lucknow University
- C. Involvement of Archaeological Survey of India (ASI)
- D. Digging of land for making a highway
- E. Reaching the conclusion that the remains belonged to 6th-7th century BCE

- Ans
- ☒ 1. ABCDE
  - ☒ 2. DBACE
  - ☒ 3. BADCE
  - ☒ 4. DABEC

Question ID : 6009298485

### Comprehension:

Read the following passage and answer the questions given after it.

On March 2, professor Manoj Kumar Singh from Delhi University's department of anthropology got an email from a student in Lucknow about a few artifacts being found in Umra village in Sultanpur district. After assessment and excavation, a team of researchers has likely discovered a human settlement from 6th to 7th century BCE.

Based on the terracotta structures, charred foodgrains, animal bones and pottery, an archaeologist from Archaeological Survey of India (ASI) reached the conclusion that the settlement could have been a part of the ancient trade route towards Allahabad.

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Biswas said the site was in a hamlet called Jawahar ka Purwa. "We found remains of pottery, potsherds, grains, bricks and bones and reported it to our professor. He then led an immediate preliminary investigation of the unreported remains. The site located on a raised platform close to Gomti river, might have been a permanent settlement," she added.

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"The potsherds were of various designs and had been stylised with concentric circles, fishnet wavy patterns, circles, and geometric as well as non-geometric designs. The exploration yielded a variety of raw materials, predominantly red ware. The other relatively scarce sherds were of black ware and polished black ware," said Biswas. The archeologist with ASI said, "The photographs of the potsherds clearly show that they are of the northern black polished ware culture, which was prevalent in the first millennia BCE. We can safely say that the site belongs to around the 7th Century BCE in the Kushana period." "The entire region is rich in history. This was also the period when Buddha was travelling. In those times, cities were flourishing. This could be the part of a trade route, which makes it significant. We hope to find more such sites," he added.

#### SubQuestion No : 8

**Q.8** On which of the following findings did the archaeologists reach the conclusion that the findings belonged to 6th-7th century BCE?

- Ans
- ☒ 1. Charred food grains
  - ☒ 2. Big sized heavy bricks
  - ☒ 3. Potsherds of polished black ware
  - ☒ 4. Animal bones

Question ID : 6009298483

### Comprehension:

Read the following passage and answer the questions given after it.

On March 2, professor Manoj Kumar Singh from Delhi University's department of anthropology got an email from a student in Lucknow about a few artifacts being found in Umra village in Sultanpur district. After assessment and excavation, a team of researchers has likely discovered a human settlement from 6th to 7th century BCE.

Based on the terracotta structures, charred foodgrains, animal bones and pottery, an archaeologist from Archaeological Survey of India (ASI) reached the conclusion that the settlement could have been a part of the ancient trade route towards Allahabad.

Lucknow student, Kartik Mani Tripathi, discovered the ancient remains on land that was dug up for an Uttar Pradesh government-sponsored highway project. "Kartik sent mails to many authorities, including ASI, but got no response. He then emailed me on March 2. The next day, two of my researchers, Sudeshna Biswas and Ravinder, reached the spot," said Singh.

Biswas said the site was in a hamlet called Jawahar ka Purwa. "We found remains of pottery, potsherds, grains, bricks and bones and reported it to our professor. He then led an immediate preliminary investigation of the unreported remains. The site located on a raised platform close to Gomti river, might have been a permanent settlement," she added.

Singh said locals called the place "Itawah", or locale of bricks. "The villagers had found mounds of large unusual bricks. They had used mud, potsherds and other precious debris and bricks to build their houses. The bricks were huge and heavy compared with contemporary ones. Due to their longevity, almost every house in the area had used them," he added.

"The potsherds were of various designs and had been stylised with concentric circles, fishnet wavy patterns, circles, and geometric as well as non-geometric designs. The exploration yielded a variety of raw materials, predominantly red ware. The other relatively scarce sherds were of black ware and polished black ware," said Biswas. The archeologist with ASI said, "The photographs of the potsherds clearly show that they are of the northern black polished ware culture, which was prevalent in the first millennia BCE. We can safely say that the site belongs to around the 7th Century BCE in the Kushana period." "The entire region is rich in history. This was also the period when Buddha was travelling. In those times, cities were flourishing. This could be the part of a trade route, which makes it significant. We hope to find more such sites," he added.

### SubQuestion No : 9

**Q.9 Which of the following statements is NOT true according to the passage?**

- Ans
- ☒ 1. The settlement belonged to the period when Buddha was travelling.
  - ☒ 2. The ASI concluded that the settlement found could have been a part of the ancient trade route towards Allahabad.
  - ☒ 3. The villagers had found mounds of large unusual bricks.
  - ☒ 4. Most of the potsherds found were of black ware and polished black ware.

Question ID : 6009298486



### Comprehension:

Read the following passage and answer the questions given after it.

On March 2, professor Manoj Kumar Singh from Delhi University's department of anthropology got an email from a student in Lucknow about a few artifacts being found in Umra village in Sultanpur district. After assessment and excavation, a team of researchers has likely discovered a human settlement from 6th to 7th century BCE.

Based on the terracotta structures, charred foodgrains, animal bones and pottery, an archaeologist from Archaeological Survey of India (ASI) reached the conclusion that the settlement could have been a part of the ancient trade route towards Allahabad.

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### SubQuestion No : 10

**Q.10 Who discovered the ancient remains of the settlement first at the UP government highway project site?**

- Ans
- ☒ 1. A student from Lucknow University
  - ☐ 2. A professor from the University of Delhi
  - ☐ 3. Research scholars from the University of Delhi
  - ☐ 4. An archaeologist from Archaeological Survey of India (ASI)

Question ID : 6009298484