National Testing Agency

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AGRICULTURAL ENGINEERING AND TECHNOLOGY

Group Number :	1
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Group Maximum Duration :	0
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Break time:	0
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Part A : AGRICULTURAL ENGINEERING AND TECHNOLOGY

Section Id :	55317212
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	160
Number of Questions to be attempted:	160
Section Marks:	640
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	55317234
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 553172675 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Length of engineer's chain is

(1) 20 m
(2) 30 m
(3) 100 ft
(4) 66 ft

Options :

5531722641. 1

5531722642. 2

5531722643. 3

5531722644. 4

Question Number : 2 Question Id : 553172676 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Stadia hairs are used in equipment

(1) Ranging Rod
(2) Plumb bobs
(3) Theodolite
(4) Compass

Options :

5531722645. 1

5531722646. 2

5531722647. 3

5531722648. 4

Question Number : 3 Question Id : 553172677 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Station in surveying is a point where,

(1) bench mark is taken
(2) rod is held
(3) level is set
(4) none of above

Options :

5531722649. 1

5531722650. 2

5531722651. 3

5531722652. 4

Question Number : 4 Question Id : 553172678 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most commonly used method of topographical survey
for large area is:

(1) Grid method
(2) Plain table and alidade method
(3) Theodolite and stadia method
(4) Base line and spot level method

Options :

5531722653. 1

5531722654. 2

5531722655. 3

5531722656. 4

Question Number : 5 Question Id : 553172679 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The average annual rainfall of India is about

(1) 1080 cm
(2) 119.4 cm
(3) 1250 cm
(4) 1300 cm

Options :

5531722657. 1

5531722658. 2

5531722659. 3

5531722660. 4

Question Number : 6 Question Id : 553172680 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The portion of rainfall that makes its way to stream, channel, lakes or ocean is

(1) Seepage
(2) Deep percolation
(3) Discharge
(4) Runoff

Options :

5531722661. 1

5531722662. 2

5531722663. 3

5531722664. 4

Question Number : 7 Question Id : 553172681 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

System of levying irrigation charges in India is based on:

(1) Volume of water supplied
(2) Discharge at canal and outlet
(3) Annual charge per hectare of the irrigable area.
(4) Annual charge on actual irrigated area.

Options :

5531722665. 1

5531722666. 2

5531722667. 3

5531722668. 4

Question Number : 8 Question Id : 553172682 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The diameters of driven wells usually vary from:

(1) 3 to 20 cm
(2) 21 to 30 cm
(3) 31 to 40cm
(4) 41 to 50 cm

Options :

5531722669. 1

5531722670. 2

5531722671. 3

5531722672. 4

Question Number : 9 Question Id : 553172683 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Persian wheel lifts water over a height of about

(1) 7 - 10m
(2) 10 -15 m
(3) 15 - 20 m
(4) 20 -30 m

Options :

5531722673. 1

5531722674. 2

5531722675. 3

5531722676. 4

Question Number : 10 Question Id : 553172684 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Pump characteristics curve represents

(1) Discharge – head relationship
(2) Discharge – efficiency relationship
(3) Discharge – power requirement relationship
(4) Discharge – head – efficiency & power requirement relationship

Options :

5531722677. 1

5531722678. 2

5531722679. 3

5531722680. 4

Question Number : 11 Question Id : 553172685 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Side slope of Cipoletti weir is:

(1) 1: 1 :: horizontal: vertical
(2) 1: 4 :: horizontal: vertical
(3) 4:1 :: horizontal: vertical
(4) Any shape as per type of soil

Options :

5531722681. 1

5531722682. 2

5531722683. 3

5531722684. 4

Question Number : 12 Question Id : 553172686 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The best hydraulic section of a trapezoidal channel under favourable structural conditions is

(1) $b=d \tan \left(\frac{\theta}{2}\right)$

(2) $b=2d \tan \left(\frac{\theta}{2}\right)$

(3) $b=d \tan \theta$

(4) $b=2d \tan \theta$

Options :

5531722685. 1

5531722686. 2

5531722687. 3

5531722688. 4

Question Number : 13 Question Id : 553172687 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

As per USDA, particle size of silt is given as

(1) 1 to 2 mm
(2) 0.5 to 1.0 mm
(3) 0.002 to 0.05 mm
(4) less than 0.002 mm

Options :

5531722689. 1

5531722690. 2

5531722691. 3

5531722692. 4

Question Number : 14 Question Id : 553172688 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Intrinsic permeability depends upon:

    (1) Soil temperature
    (2) Soil humidity
    (3) Property of porous media
    (4) Neither porous media nor climatic temperature

Options :

5531722693. 1

5531722694. 2

5531722695. 3

5531722696. 4

Question Number : 15 Question Id : 553172689 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Water conveyance efficiency (Ec) is defined as:

    (1) $Ec = \frac{w_f}{w_r} \times 100$

    (2) $Ec = \frac{w_s}{w_f} \times 100$

    (3) $Ec = \frac{w_s}{w_r} \times 100$

    (4) $Ec = 100 \left(1 - \frac{y}{d}\right)$

    (Where,

W_f = water delivered to the irrigated plot,
W_r = water supplied at the source,
W_s = water stored on the root zone during irrigation
y = average numerical deviation in depth of water stored
   from average depth stored during irrigation,
d = depth of water stored during irrigation)

Options :

5531722697. 1

5531722698. 2

5531722699. 3

5531722700. 4

Question Number : 16 Question Id : 553172690 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A lateral has 12 sprinklers spaced at 10 m apart. The laterals are spaced 18 m on the main line. Determine the amount of fertilizer to be applied at each setting, when the recommended fertilizer dose is 120 kg/ha.

    (1) 20.92 kg
    (2) 25.92 kg
    (3) 30.92 kg
    (4) 35.92 kg

Options :

5531722701. 1

5531722702. 2

5531722703. 3

5531722704. 4

Question Number : 17 Question Id : 553172691 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A drainage canal discharges 0.2 cubic meters of water per second and drains 250 ha. What is the drainage coefficient of this land?

(1) 5 mm
(2) 6 mm
(3) 7 mm
(4) 8 mm

Options :

5531722705. 1

5531722706. 2

5531722707. 3

5531722708. 4

Question Number : 18 Question Id : 553172692 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most hazardous element in irrigation water in relation to crop growth and production is:

(1) Potassium
(2) Magnesium
(3) Sodium
(4) Calcium

Options :

5531722709. 1

5531722710. 2

5531722711. 3

5531722712. 4

Question Number : 19 Question Id : 553172693 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Mole drainage is best suited for which type of soil?

(1) Clay soil
(2) Loamy soil
(3) Sandy Soil
(4) Sandy loam soil

Options :

5531722713. 1

5531722714. 2

5531722715. 3

5531722716. 4

Question Number : 20 Question Id : 553172694 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Sub surface drains remove

    (1) Capillary water
    (2) Gravitational water
    (3) Hygroscopic water
    (4) Hydrostatic water

Options :

5531722717. 1

5531722718. 2

5531722719. 3

5531722720. 4

Question Number : 21 Question Id : 553172695 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The minimum grade of a tile drain should not be less than

    (1) 0.05
    (2) 0.10
    (3) 0.20
    (4) 0.30

Options :

5531722721. 1

5531722722. 2

5531722723. 3

5531722724. 4

Question Number : 22 Question Id : 553172696 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Heavy rainfall is characterized if rainfall intensity is:

    (1) Less than 2.5 mm/hr
    (2) 2.5 to 5.0 mm/hr
    (3) 5.0 to 7.5 mm/hr
    (4) Greater than 7.5 mm/hr

Options :

5531722725. 1

5531722726. 2

5531722727. 3

5531722728. 4

Question Number : 23 Question Id : 553172697 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The terminal velocity of rainfall drop ranges from:

    (1) 1-4 m/sec
    (2) 4-10 m/sec
    (3) 10-15 m/sec
    (4) Above 15 m/sec

Options :

5531722729. 1

5531722730. 2

5531722731. 3

5531722732. 4

Question Number : 24 Question Id : 553172698 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

When the velocity of overhead flow is doubled, its erosive capacity is increased by

(1) 2 times
(2) 4 times
(3) 6 times
(4) 32 times

Options :

5531722733. 1

5531722734. 2

5531722735. 3

5531722736. 4

Question Number : 25 Question Id : 553172699 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Most susceptible soil particle size for wind erosion is:

(1) 0.1 to 0.5 mm
(2) 0.5 to 2.0 mm
(3) 2.0 to 4.0 mm
(4) Greater than 4.0 mm

Options :

5531722737. 1

5531722738. 2

5531722739. 3

5531722740. 4

Question Number : 26 Question Id : 553172700 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A typical sand dune has a steep slope at the leeward side, compared to the wind ward side. The slope on the leeward side is about:

(1) 10°
(2) 20°
(3) 30°
(4) 40°

Options :

5531722741. 1

5531722742. 2

5531722743. 3

5531722744. 4

Question Number : 27 Question Id : 553172701 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The commonly used value of the roughness coefficient in Manning's formula for designing the channel capacity in a graded terrace is

    (1) 0.2

    (2) 0.3

    (3) 0.4

    (4) 0.5

Options :

5531722745. 1

5531722746. 2

5531722747. 3

5531722748. 4

Question Number : 28 Question Id : 553172702 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

To enable the movement of farm machinery, the side slope of vegetated water ways should not exceed by

    (1) 2:1

    (2) 3:1

    (3) 4:1

    (4) 6:1

Options :

5531722749. 1

5531722750. 2

5531722751. 3

5531722752. 4

Question Number : 29 Question Id : 553172703 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

For steady hydraulic jump, Froude number should be

    (1) 1.0 to 1.7

    (2) 1.7 to 2.5

    (3) 2.5 to 4.5

    (4) 4.5 to 9.0

Options :

5531722753. 1

5531722754. 2

5531722755. 3

5531722756. 4

Question Number : 30 Question Id : 553172704 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The angle of repose of dry sandy soils usually ranges from

(1) 20-25°
(2) 25-30°
(3) 30-37°
(4) 37-42°

Options :

5531722757. 1

5531722758. 2

5531722759. 3

5531722760. 4

Question Number : 31 Question Id : 553172705 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Warabandi, a system of water distribution in canal command area is based on

(1) First come first served basis
(2) Proportion of land holding
(3) Location of field in command
(4) Need based demand of farmers

Options :

5531722761. 1

5531722762. 2

5531722763. 3

5531722764. 4

Question Number : 32 Question Id : 553172706 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Actual length of well screen should be chosen in relation to thickness of aquifer as percentage:

(1) 50%
(2) 80%
(3) 100%
(4) 120%

Options :

5531722765. 1

5531722766. 2

5531722767. 3

5531722768. 4

Question Number : 33 Question Id : 553172707 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The relationship between discharge of a pump with change in speed of pump is given as

(1) Discharge varies directly as the speed.
(2) Discharge varies as the square of the speed.
(3) Discharge varies as cube of speed.
(4) Discharge does not change with speed.

**Question Number : 34 Question Id : 553172708 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

A pump lifts 93,600 liters of water per hour against a total head
of 21 meters. Compute the water horse power

(1) 4.18 hp
(2) 5.18 hp
(3) 7.18 hp
(4) 11.18 hp

Options :

5531722773. 1

5531722774. 2

5531722775. 3

5531722776. 4

**Question Number : 35 Question Id : 553172709 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

The discharge through a Cipoletti weir is computed by the
following formula:

(1) $Q=0.0138 \, LH^{3/2}$
(2) $Q=0.0186 \, LH^{3/2}$
(3) $Q=0.0184 \, LH^{3/2}$
(4) $Q=0.186 \, LH^{3/2}$

(Where, L is length of sill and H is head causing flow)

Options :

5531722777. 1

5531722778. 2

5531722779. 3

5531722780. 4

**Question Number : 36 Question Id : 553172710 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

In measuring the rate of flow in irrigation canals using current
meters, the measurements are taken at two locations below the
water surface and the average of the two values provides an
estimate of the average rate of flow. To obtain fairly accurate
results, the measurement points are located at

(1) 0.1 and 0.9 of the depth of flow
(2) 0.2 and 0.8 of the depth of flow
(3) 0.3 and 0.7 of the depth of flow
(4) 0.4 and 0.6 of the depth of flow

Options :

5531722781. 1

5531722782. 2

5531722783. 3

5531722784. 4

Question Number : 37 Question Id : 553172711 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

To enable the workman to enter into the stand pipe to make joints inside it, the diameter of the stand pipe should have a minimum value of :

(1) 50 cm
(2) 60 cm
(3) 70 cm
(4) 80 cm

Options :

5531722785. 1

5531722786. 2

5531722787. 3

5531722788. 4

Question Number : 38 Question Id : 553172712 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Infiltration is movement of water
(1) From the surface into the soil
(2) Vertical movement within root zone
(3) Lateral movement within root zone
(4) Vertical download movement below root zone

Options :

5531722789. 1

5531722790. 2

5531722791. 3

5531722792. 4

Question Number : 39 Question Id : 553172713 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Formula for determination of wind velocity at different height with reference to wind velocity at 2m height is:

(1) $\mu_2 = \mu_z \left(\dfrac{4.87}{\ln(67.82 - 5.42)} \right)$

(2) $\mu_2 = \mu_z \left(\dfrac{293 - 0.00652}{293} \right)^{5.26}$

(3) $\mu_2 = \mu_z \times 0.665 \times 10^{-3} z$

(4) $\mu_2 = \mu_z \times 1.013 \times 10^{-3} z$

where μ_2 is wind velocity at 2 m height and
μ_z is wind velocity of z m height

Options :

5531722793. 1

5531722794. 2

5531722795. 3

5531722796. 4

Question Number : 40 Question Id : 553172714 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Amongst the four distinct growth stages of seasonal crops, the maximum value of crop coefficient K_c is during:

(1) Initial stage
(2) Crop development stage
(3) Mid-season stage
(4) Late season stage

Options :

5531722797. 1

5531722798. 2

5531722799. 3

5531722800. 4

Question Number : 41 Question Id : 553172715 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Process of elimination of pathogenic microbes in liquid food is knows as:

(1) Pasteurization
(2) Sterilization
(3) Canning
(4) Evaporation

Options :

5531722801. 1

5531722802. 2

5531722803. 3

5531722804. 4

Question Number : 42 Question Id : 553172716 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Process of converting ice directly into vapor without passing through liquid phase is known as

(1) Sublimation
(2) Vaporization
(3) Radiation
(4) Sensible cooling

Options :

5531722805. 1

5531722806. 2

5531722807. 3

5531722808. 4

Question Number : 43 Question Id : 553172717 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Part of refrigeration system in which the refrigerant changes from vapour to liquid is

(1) Evaporator
(2) Compressor
(3) Condenser
(4) Expansion valve

Options :

5531722809. 1

5531722810. 2

5531722811. 3

5531722812. 4

Question Number : 44 Question Id : 553172718 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Amount of heat that must be added or removed from 1 kg of substance to change its temperature by 1°C is

(1) Specific energy
(2) Specific heat
(3) Sensible heat
(4) Latent heat

Options :

5531722813. 1

5531722814. 2

5531722815. 3

5531722816. 4

Question Number : 45 Question Id : 553172719 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Thermal conductivity of single grain ranges from

(1) 0.3 to 0.6 kcal/m.h.°C
(2) 1.0 to 3.0 kcal/m.h.°C
(3) 0.01 to 0.03 kcal/m.h.°C
(4) 10 to 30 kcal/m.h.°C

Options :

5531722817. 1

5531722818. 2

5531722819. 3

5531722820. 4

Question Number : 46 Question Id : 553172720 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Food Safety and Standards Authority of India has been established under

(1) Food Safety and Standards Act, 2006
(2) Food Safety and Standards Act, 2007
(3) Food Safety Act 2010
(4) Food Standards Act 2010

Options :

5531722821. 1

5531722822. 2

5531722823. 3

5531722824. 4

Question Number : 47 Question Id : 553172721 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

HACCP stands for

(1) Hazard Analysis Critical Control Point
(2) Hazard Analysis Crucial Control Practice
(3) Hazard Analysis Counter Control Point
(4) Hazard Analysis Critical Control Practice

Options :

5531722825. 1

5531722826. 2

5531722827. 3

5531722828. 4

Question Number : 48 Question Id : 553172722 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

When moisture content of grain increases, the angle of repose will

(1) Increase
(2) Decrease
(3) Remain unchanged
(4) Reach zero

Options :

5531722829. 1

5531722830. 2

5531722831. 3

5531722832. 4

Question Number : 49 Question Id : 553172723 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If projected area of particle in perpendicular direction of motion increases, the terminal velocity of the particle

(1) Increases
(2) Decreases
(3) Doesn't change
(4) Becomes Zero

Options :

5531722833. 1

5531722834. 2

5531722835. 3

5531722836. 4

Question Number : 50 Question Id : 553172724 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which among the following is a measure of sharpness of the solid material?

(1) Roundness
(2) Sharpness index
(3) Sphericity
(4) Sharpness factor

Options :

5531722837. 1

5531722838. 2

5531722839. 3

5531722840. 4

Question Number : 51 Question Id : 553172725 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Triangular openings in a screen is specified by

(1) Length of each side of triangle
(2) Surface area of triangle
(3) Perimeter of triangle
(4) Diameter of circumscribed circle

Options :

5531722841. 1

5531722842. 2

5531722843. 3

5531722844. 4

Question Number : 52 Question Id : 553172726 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Inclined draper separates material based on

(1) Shape and density
(2) Size and density
(3) Size and shape
(4) Shape and surface texture

Options :

5531722845. 1

5531722846. 2

5531722847. 3

5531722848. 4

Question Number : 53 Question Id : 553172727 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Disk separator separates material on the basis of

    (1) Size
    (2) Shape
    (3) Color
    (4) Length

Options :

5531722849. 1

5531722850. 2

5531722851. 3

5531722852. 4

Question Number : 54 Question Id : 553172728 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Process of removing foreign matter from desired grain/product is known as

    (1) Cleaning
    (2) Grading
    (3) Sorting
    (4) Polishing

Options :

5531722853. 1

5531722854. 2

5531722855. 3

5531722856. 4

Question Number : 55 Question Id : 553172729 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If the moisture content of the grain stored in a bin increases, the lateral pressure at a given point will

    (1) Increase
    (2) Decrease
    (3) Remain same
    (4) Become negative

Options :

5531722857. 1

5531722858. 2

5531722859. 3

5531722860. 4

Question Number : 56 Question Id : 553172730 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Rankine's coefficient used in calculation of grain pressure is the

(1) Sum of lateral and vertical pressure
(2) Ratio of lateral to vertical pressure
(3) Ratio of vertical to lateral pressure
(4) Product of lateral and vertical pressure

Options :

5531722861. 1

5531722862. 2

5531722863. 3

5531722864. 4

Question Number : 57 Question Id : 553172731 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

CAP stands for

(1) Cover and plinth
(2) Computer aided printing
(3) Clean aeration practice
(4) Cover and pour

Options :

5531722865. 1

5531722866. 2

5531722867. 3

5531722868. 4

Question Number : 58 Question Id : 553172732 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Force(s) employed for discharge of material in bucked elevator is/are

(1) Impact Force
(2) Vacuum and centrifugal force
(3) Gravitational force and vacuum
(4) Gravitational and centrifugal force

Options :

5531722869. 1

5531722870. 2

5531722871. 3

5531722872. 4

Question Number : 59 Question Id : 553172733 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Speed of belt of a conveyer belt for transportation of grain should be

(1) Less than 3.5 m/s
(2) Greater than 3.5 m/s
(3) equal to 4.5 m/s
(4) Greater than 4.5 m/s

Options :

5531722873. 1

5531722874. 2

5531722875. 3

5531722876. 4

Question Number : 60 Question Id : 553172734 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following involves application of red earth for pulse milling?

(1) Wet milling
(2) Dry milling
(3) CFTRI method
(4) CIAE method

Options :

5531722877. 1

5531722878. 2

5531722879. 3

5531722880. 4

Question Number : 61 Question Id : 553172735 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Under runner disc sheller is used for

(1) Paddy dehusking
(2) Pulse milling
(3) Wheat milling
(4) Rice polishing

Options :

5531722881. 1

5531722882. 2

5531722883. 3

5531722884. 4

Question Number : 62 Question Id : 553172736 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Drying front exists in case of

(1) Thin layer drying
(2) Deep bed drying
(3) Spray drying
(4) Fluidized bed drying

Options :

5531722885. 1

5531722886. 2

5531722887. 3

5531722888. 4

Question Number : 63 Question Id : 553172737 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Vertical lines on a psychrometric chart represents

    (1) Dry bulb temperature
    (2) Relative humidity
    (3) Enthalpy
    (4) Humidity ratio

Options :

5531722889. 1

5531722890. 2

5531722891. 3

5531722892. 4

Question Number : 64 Question Id : 553172738 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Process of drying in which heat is generated within the solid by placing it in a fixed high frequency current is called

    (1) Infrared drying
    (2) Dielectric drying
    (3) Radiation drying
    (4) High frequency drying

Options :

5531722893. 1

5531722894. 2

5531722895. 3

5531722896. 4

Question Number : 65 Question Id : 553172739 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Moisture content of grain at which drying rate ceases to be constant is known as

    (1) Critical moisture content
    (2) Equilibrium moisture content
    (3) Constant moisture content
    (4) Falling moisture content

Options :

5531722897. 1

5531722898. 2

5531722899. 3

5531722900. 4

Question Number : 66 Question Id : 553172740 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Moisture holding capacity of air having 50% relative humidity

    (1) Increases with increase in temperature
    (2) Remains unaltered with change in temperature
    (3) Decreases with increase in temperature
    (4) Is independent of air temperature

Options :

5531722901. 1

5531722902. 2

5531722903. 3

5531722904. 4

Question Number : 67 Question Id : 553172741 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

For better performance, ball mill should be operated at a speed

    (1) Equal or greater than critical speed

    (2) Less than critical speed

    (3) Greater than critical speed

    (4) Equal to critical speed

Options :

5531722905. 1

5531722906. 2

5531722907. 3

5531722908. 4

Question Number : 68 Question Id : 553172742 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Shearing, procedure of size reduction, is a combination of

    (1) Cutting and crushing

    (2) Crushing and impact

    (3) Cutting and impact

    (4) Cutting, crushing and impact

Options :

5531722909. 1

5531722910. 2

5531722911. 3

5531722912. 4

Question Number : 69 Question Id : 553172743 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Distribution of fines and coarses of a ground sample (flour) can be represented by

    (1) Fineness modulus

    (2) Uniformity Index

    (3) Size Index

    (4) Grinding modulus

Options :

5531722913. 1

5531722914. 2

5531722915. 3

5531722916. 4

Question Number : 70 Question Id : 553172744 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Process temperature used for UHT processing of milk is

(1) Less than 100°C
(2) Greater than 100°C
(3) Equal to 100°C
(4) Always greater than 150°C

Options :

5531722917. 1

5531722918. 2

5531722919. 3

5531722920. 4

Question Number : 71 Question Id : 553172745 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Process that involves creation of high levels of CO_2 and low levels of O_2 within the package by the food product itself due to respiration, is known as

(1) Controlled atmospheric packaging
(2) Passive modified atmospheric packaging
(3) Active modified atmospheric packaging
(4) Smart packaging

Options :

5531722921. 1

5531722922. 2

5531722923. 3

5531722924. 4

Question Number : 72 Question Id : 553172746 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Time required in accomplishing the stated reduction in population of microorganisms is indicated by

(1) D value
(2) 12 D value
(3) Z value
(4) F value

Options :

5531722925. 1

5531722926. 2

5531722927. 3

5531722928. 4

Question Number : 73 Question Id : 553172747 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

For cost analysis of food processing enterprise, following is not considered under operating cost

    (1) Labor
    (2) Maintenance
    (3) Power
    (4) Housing

Options :

5531722929. 1

5531722930. 2

5531722931. 3

5531722932. 4

Question Number : 74 Question Id : 553172748 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Production at which a food processing enterprise makes neither a profit nor a loss is
    (1) Break-even point
    (2) Business start point
    (3) Break-central point
    (4) Zero depreciation point

Options :

5531722933. 1

5531722934. 2

5531722935. 3

5531722936. 4

Question Number : 75 Question Id : 553172749 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What is the amount of dry matter content in the final product when 100kg of grain at 25% (wb) moisture content is dried to 10% (db)?
    (1) 90 kg
    (2) 75 kg
    (3) 65 kg
    (4) 100 kg

Options :

5531722937. 1

5531722938. 2

5531722939. 3

5531722940. 4

Question Number : 76 Question Id : 553172750 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Sequence of unit operations involved in canning of pineapple is

    (1) Exhausting-filling-sealing-sterilization
    (2) Filling-sealing-exhausting-sterilization
    (3) Filling-exhausting-sealing-sterilization
    (4) Filling-exhausting-sterilization-sealing

Question Number : 77 Question Id : 553172751 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Principle of septic tank is that under suitable conditions bacteria will reduce organic material to

(1) Liquids and solids for the most part
(2) Liquids and gases for the most part
(3) Solids and gases for the most part
(4) Solids for the most part

Options :

5531722945. 1

5531722946. 2

5531722947. 3

5531722948. 4

Question Number : 78 Question Id : 553172752 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Amino acid that a human body is able to synthesize is

(1) Tryptophan
(2) Lysine
(3) Valine
(4) Alanine

Options :

5531722949. 1

5531722950. 2

5531722951. 3

5531722952. 4

Question Number : 79 Question Id : 553172753 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Following operation is done prior to dry milling of pulses

(1) Washing
(2) Polishing
(3) Grading
(4) Pitting

Options :

5531722953. 1

5531722954. 2

5531722955. 3

5531722956. 4

Question Number : 80 Question Id : 553172754 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The number of holes per square inch in a 10-mesh sieve will be

(1) 10
(2) 1000
(3) 100
(4) 25

Options :

5531722957. 1

5531722958. 2

5531722959. 3

5531722960. 4

Question Number : 81 Question Id : 553172755 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which type of furrow opener is recommended for use in hard or trashy ground and also in wet and sticky soils?

(1) Single disc
(2) Stub runner
(3) Full or curved runner
(4) Hoe

Options :

5531722961. 1

5531722962. 2

5531722963. 3

5531722964. 4

Question Number : 82 Question Id : 553172756 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

When the amount of torque to be transmitted is very high and frequency of occurrence of overload is low, the type of safety device that can be employed in a farm machine is

(1) Safety jump clutch
(2) Safety shear pin
(3) Safety friction clutch
(4) V-belt

Options :

5531722965. 1

5531722966. 2

5531722967. 3

5531722968. 4

Question Number : 83 Question Id : 553172757 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which bearing material is most susceptible to corrosion?

    (1) Babbit
    (2) Copper lead
    (3) Aluminium
    (4) Aluminium-babbit

Options :
5531722969. 1
5531722970. 2
5531722971. 3
5531722972. 4

Question Number : 84 Question Id : 553172758 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In an epicyclic gear speed reduction unit, the ratio of the number of teeth of the annular gear to the Sun gear is:

    (1) 3:1
    (2) 4:1
    (3) 1:1
    (4) 2:1

Options :
5531722973. 1
5531722974. 2
5531722975. 3
5531722976. 4

Question Number : 85 Question Id : 553172759 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In hydraulic sprayers, the degree of atomization is primarily a function of
(1) Liquid pressure and nozzle characteristics
(2) Air Velocity
(3) Size of the nozzle
(4) Size and shape of the atomizer

Options :
5531722977. 1
5531722978. 2
5531722979. 3
5531722980. 4

Question Number : 86 Question Id : 553172760 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

At which place is usually the virtual hitch point for a directional implement located?
    (1) Near the front axle
    (2) 40 mm towards the rear axle
    (3) At the power take off shaft
    (4) Between the two-lower links

Options :

5531722981. 1

5531722982. 2

5531722983. 3

5531722984. 4

Question Number : 87 Question Id : 553172761 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which seed metering device is most commonly used in seed drills?

(1) Internal double run
(2) Flutted roller
(3) Horizontal plate with cells
(4) Inclined plate with cells

Options :

5531722985. 1

5531722986. 2

5531722987. 3

5531722988. 4

Question Number : 88 Question Id : 553172762 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In a combine harvester, the reel speed index should normally be in the range of:

(1) 1.25 to 1.5
(2) 1.5 to 1.75
(3) 1.75 to 2.0
(4) 2.0 to 2.25

Options :

5531722989. 1

5531722990. 2

5531722991. 3

5531722992. 4

Question Number : 89 Question Id : 553172763 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Tilt angle in a disc plough varies from

(1) 5-10 degree
(2) 10-15 degree
(3) 15-25 degree
(4) 25-30 degree

Options :

5531722993. 1

5531722994. 2

5531722995. 3

5531722996. 4

**Question Number : 90 Question Id : 553172764 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

The operator can notice about the trouble of engine knocks, if
there is

(1) Excessive carbon deposits
(2) Leak in fuel line
(3) Excess oil reaching combustion chamber
(4) High oil level

Options :

5531722997. 1

5531722998. 2

5531722999. 3

5531723000. 4

**Question Number : 91 Question Id : 553172765 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

Utility index is an indication of:

(1) Work machine contact hours
(2) Wear out life of machine
(3) Operating cost of machine
(4) Reliability of machine working

Options :

5531723001. 1

5531723002. 2

5531723003. 3

5531723004. 4

**Question Number : 92 Question Id : 553172766 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

In IC engine, the function of turbo charger is to

(1) Mix air and fuel
(2) Control fuel
(3) Supply air under pressure to cylinder
(4) Add power to flywheel

Options :

5531723005. 1

5531723006. 2

5531723007. 3

5531723008. 4

**Question Number : 93 Question Id : 553172767 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

How is the size of a tyre of 12 ply rating, 9 inches width and 20 inches diameter indicated?

(1) 9-20-12
(2) 12-9-20
(3) 20-9-12
(4) 9-12-20

Options :

5531723009. 1

5531723010. 2

5531723011. 3

5531723012. 4

Question Number : 94 Question Id : 553172768 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Petroil lubrication system is generally used in

(1) Two stroke engines
(2) Four stroke engines
(3) Tractors
(4) Aircrafts

Options :

5531723013. 1

5531723014. 2

5531723015. 3

5531723016. 4

Question Number : 95 Question Id : 553172769 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

During braking, the brake shoe is moved to force the lining against the

(1) Wheel piston on the cylinder
(2) Anchor pin
(3) Brake drum
(4) Wheel rim

Options :

5531723017. 1

5531723018. 2

5531723019. 3

5531723020. 4

Question Number : 96 Question Id : 553172770 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Ballasting in rear tyres of tractor is done to:

(1) Increase traction
(2) Reduce tractor vibration
(3) Increase weight of tractor
(4) Prevent over turning of tractor

Options :

5531723021. 1

5531723022. 2

5531723023. 3

5531723024. 4

Question Number : 97 Question Id : 553172771 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Firing order of a six-cylinder four stroke engine in which no two adjacent cylinders have power strokes is:

(1) 1-5-3-6-2-4
(2) 1-2-3-4-5-6
(3) 1-5-4-6-3-2
(4) 1-4-2-5-6-3

Options :

5531723025. 1

5531723026. 2

5531723027. 3

5531723028. 4

Question Number : 98 Question Id : 553172772 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Excessive stalk deflection, particularly when cutting close to the ground results in:
(1) Stubbles of uneven length
(2) Increased tendency of stalk to be cut by cutting unit
(3) Less missing or uncut stalk
(4) Evenness in cutting

Options :

5531723029. 1

5531723030. 2

5531723031. 3

5531723032. 4

Question Number : 99 Question Id : 553172773 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Kinematic similarity between the model and prototype signifies the similarity of

(1) Motion
(2) Force
(3) Length
(4) Shape

Options :

5531723033. 1

5531723034. 2

5531723035. 3

5531723036. 4

Question Number : 100 Question Id : 553172774 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

According to Occupational Safety and Health Act, a worker should not be exposed to 90 dB for more than

(1) 15 Minutes
(2) 1 hour
(3) 4 hours
(4) 8 hours

Options :

5531723037. 1

5531723038. 2

5531723039. 3

5531723040. 4

Question Number : 101 Question Id : 553172775 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Find the correct matching between Group-I and Group-II

Group-I	Group-II
1.Cone Index	A. Plough
2.Weight transfer	B. Seed Drill
3.Coulter	C. Surface Strength
4.Boot	D. Tractor hitching

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

Options :

5531723041. 1

5531723042. 2

5531723043. 3

5531723044. 4

Question Number : 102 Question Id : 553172776 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If a solar water heater heats 100 liters of water from 20°C to 60°C in 5 hours, what electrical energy will be saved by it? Assume specific heat of water is 4200 J/kg°C

(1) 2.67 kWh
(2) 4.67 kWh
(3) 6.67 kWh
(4) 8.67 kWh

Options :

5531723045. 1

5531723046. 2

5531723047. 3

5531723048. 4

Question Number : 103 Question Id : 553172777 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A farm family of six members owns two bullocks, one buffalo and one calf. If the biogas produced is used for cooking and lightning purpose, then what is the appropriate size of the biogas plant?

(1) $1 \, m^3$
(2) $2 \, m^3$
(3) $3 \, m^3$
(4) $4 \, m^3$

Options :

5531723049. 1

5531723050. 2

5531723051. 3

5531723052. 4

Question Number : 104 Question Id : 553172778 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The type of biomass gasifier usually used in running IC engine is

(1) Up draft
(2) Down draft
(3) Cross draft
(4) Fluidized bed

Options :

5531723053. 1

5531723054. 2

5531723055. 3

5531723056. 4

Question Number : 105 Question Id : 553172779 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In which method, the depreciation of machine is calculated on equal reduction of value for each year?

(1) Straight line
(2) Sum-of-the-years-digits
(3) Declining balance
(4) Sinking fund

Options :

5531723057. 1

5531723058. 2

5531723059. 3

5531723060. 4

Question Number : 106 Question Id : 553172780 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

How much area can be covered by bullock operated harrow of width 1.0 m in 8 hours? Assume the speed of bullock to be 2.0 km/h and field efficiency of 75%

(1) 1.6 ha
(2) 1.2 ha
(3) 1.5 ha
(4) 1.0 ha

Options :

5531723061. 1

5531723062. 2

5531723063. 3

5531723064. 4

Question Number : 107 Question Id : 553172781 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A frog of an animal drawn mould board plough is normally made of

(1) High carbon steel
(2) Soft center steel
(3) Crucible steel
(4) Cast iron

Options :

5531723065. 1

5531723066. 2

5531723067. 3

5531723068. 4

Question Number : 108 Question Id : 553172782 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Disc angle adjustment influences

(1) Depth of cut
(2) Width of cut
(3) Soil break up
(4) Direction of travel

Options :

5531723069. 1

5531723070. 2

5531723071. 3

5531723072. 4

Question Number : 109 Question Id : 553172783 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The throughput capacity of a grain thresher is expressed in

(1) kg/m^3
(2) kg/m^2
(3) kg/hr
(4) m^3/kg

Options :

5531723073. 1

5531723074. 2

5531723075. 3

5531723076. 4

Question Number : 110 Question Id : 553172784 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

At which point the resultant of all horizontal and vertical forces act?

(1) Centre of gravity
(2) Centre of pull
(3) Centre of resistance
(4) Line of pull

Options :

5531723077. 1

5531723078. 2

5531723079. 3

5531723080. 4

Question Number : 111 Question Id : 553172785 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which type of pump is generally used in a force-feed lubrication system adopted in tractor engines?

    (1) Centrifugal
    (2) Gear
    (3) Rotary vane
    (4) Plunger

Options :

5531723081. 1

5531723082. 2

5531723083. 3

5531723084. 4

Question Number : 112 Question Id : 553172786 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What is the calorific value of high-speed diesel (HSD) in kcal/kg?

    (1) 10,000
    (2) 10,550
    (3) 11,100
    (4) 11,650

Options :

5531723085. 1

5531723086. 2

5531723087. 3

5531723088. 4

Question Number : 113 Question Id : 553172787 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In a reciprocating type mower, the knife clip of a knife section restricts

(1) Horizontal displacement of knife
(2) Side displacement of knife
(3) Vertical displacement of knife
(4) Horizontal and side displacement of knife

Options :

5531723089. 1

5531723090. 2

5531723091. 3

5531723092. 4

Question Number : 114 Question Id : 553172788 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Shortening of length of top link of tractor

(1) Increases weight transfer on rear wheel
(2) Decreases weight transfer on front wheel
(3) increases penetration of implement
(4) Decreases penetration of implement

Options :

5531723093. 1

5531723094. 2

5531723095. 3

5531723096. 4

Question Number : 115 Question Id : 553172789 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The toe-in provided in a tractor is approximately

(1) 14 to 18 mm
(2) 7 to 10 mm
(3) 18 to 28 mm
(4) 32 to 37 mm

Options :

5531723097. 1

5531723098. 2

5531723099. 3

5531723100. 4

Question Number : 116 Question Id : 553172790 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An 8-row automatic transplanter operates at a forward speed of 0.25 m/s and row spacing is 0.75 m. What is the required feed rate of the seedlings per minute into the transplanter?

(1) 100
(2) 130
(3) 240
(4) 480

Options :

5531723101. 1

5531723102. 2

5531723103. 3

5531723104. 4

Question Number : 117 Question Id : 553172791 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

As per the nature of relative motion, belt and pulley drive is categorized as

(1) Sliding pair
(2) Turning pair
(3) Cylindrical pair
(4) Rolling pair

Options :

5531723105. 1

5531723106. 2

5531723107. 3

5531723108. 4

Question Number : 118 Question Id : 553172792 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Weight transfer in a tractor is caused by:

(1) Application of pull
(2) Traction force
(3) Tractor slip
(4) Weight of operator

Options :

5531723109. 1

5531723110. 2

5531723111. 3

5531723112. 4

Question Number : 119 Question Id : 553172793 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A two bladed flywheel forage cutter rotates at 60 rpm. What will be the length of cut of the forage, if the feed rate is 1.26 m/ min?

(1) 5.3 mm
(2) 10.5 mm
(3) 21.0 mm
(4) 42.0 mm

Options :

5531723113. 1

5531723114. 2

5531723115. 3

5531723116. 4

Question Number : 120 Question Id : 553172794 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The four- bar mechanism is usually rejected, if the transmission angle is

(1) Less than 30°
(2) Between 30° to 45°
(3) Between 45° to 60°
(4) More than 60°

Options :

5531723117. 1

5531723118. 2

5531723119. 3

5531723120. 4

Question Number : 121 Question Id : 553172795 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Sketch showing required dimensions along with the external and internal forces acting on the structure is

(1) Engineering drawing
(2) Schematic diagram
(3) Free body diagram
(4) Flow chart

Options :

5531723121. 1

5531723122. 2

5531723123. 3

5531723124. 4

Question Number : 122 Question Id : 553172796 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Property of the structure to keep its initial position in equilibrium is

(1) Stability
(2) Stiffness
(3) Strength
(4) Durability

Options :

5531723125. 1

5531723126. 2

5531723127. 3

5531723128. 4

Question Number : 123 Question Id : 553172797 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Ratio of longitudinal stress to longitudinal strain is called

(1) Fineness modules
(2) Modules of elasticity
(3) Bulk modules
(4) Young's modules

Options :

5531723129. 1

5531723130. 2

5531723131. 3

5531723132. 4

Question Number : 124 Question Id : 553172798 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Strength of any material is indicated by its

(1) Stress
(2) Strain
(3) Compressiveness
(4) Compactness

Options :

5531723133. 1

5531723134. 2

5531723135. 3

5531723136. 4

**Question Number : 125 Question Id : 553172799 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

The maximum force that a body can resist, is called

(1) Ultimate stress
(2) Yield point
(3) Elastic limit
(4) Ultimate strength

Options :

5531723137. 1

5531723138. 2

5531723139. 3

5531723140. 4

**Question Number : 126 Question Id : 553172800 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

The ratio of volume of voids to the total soil volume is called:

(1) Void ratio
(2) Porosity
(3) Dry bulk density
(4) Wet bulk density

Options :

5531723141. 1

5531723142. 2

5531723143. 3

5531723144. 4

**Question Number : 127 Question Id : 553172801 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

Capillary rise in soil is determined by:

(1) $hc = \dfrac{2T \cos \alpha}{r\, \gamma_w}$

(2) $hc = \dfrac{r\, \gamma_w}{2T \cos \alpha}$

(3) $hc = \dfrac{2T\, r\, \gamma_w}{\cos \alpha}$

(4) $hc = \dfrac{\cos \alpha}{2T\, r\, \gamma_w}$

(Where hc = Capillary rise, T= Surface tension, α is angle of
surface of water with horizontal, r is radius of capillary and
γ_w is density of water)

Options :

5531723145. 1

5531723146. 2

5531723147. 3

5531723148. 4

**Question Number : 128 Question Id : 553172802 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

128.Coefficient of uniformity is defined as:

(1) $\dfrac{D60}{D10}$

(2) $\dfrac{D80}{D10}$

(3) $\dfrac{D60}{D30}$

(4) $\dfrac{D30}{D10}$

Options :

5531723149. 1

5531723150. 2

5531723151. 3

5531723152. 4

**Question Number : 129 Question Id : 553172803 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

In Hydrometer reading, meniscus correction is made by

(1) Addition to observed reading
(2) Deduction from observed reading
(3) Multiplication to observed reading
(4) Division to observed reading

Options :

5531723153. 1

5531723154. 2

5531723155. 3

5531723156. 4

**Question Number : 130 Question Id : 553172804 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

Textural classification of soil is made on the basis of

(1) Size of soil particles
(2) Shape of soil particles
(3) Column of soil
(4) Depth of soil

Options :

5531723157. 1

5531723158. 2

5531723159. 3

5531723160. 4

**Question Number : 131 Question Id : 553172805 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

A fluid is said to be ideal, if it is

(1) Incompressible
(2) Viscous and compressible
(3) Viscous and incompressible
(4) Non viscous and incompressible

Options :

5531723161. 1

5531723162. 2

5531723163. 3

5531723164. 4

**Question Number : 132 Question Id : 553172806 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

Continuity equation is the result of application of the following
law to the flow field

(1) First Law of Thermodynamics
(2) Law of Conservation of Energy
(3) Newton's Second Law of Motion
(4) Law of Conservation of Mass

Options :

5531723165. 1

5531723166. 2

5531723167. 3

5531723168. 4

**Question Number : 133 Question Id : 553172807 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

The temperature as one of the basis for measuring the
thermodynamic property, is given by:

(1) First Law of Thermodynamics
(2) Second Law of Thermodynamics
(3) Third Law of Thermodynamics
(4) Zeroth Law of Thermodynamics

Options :

5531723169. 1

5531723170. 2

5531723171. 3

5531723172. 4

**Question Number : 134 Question Id : 553172808 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

Electrical resistance of a thermometer

(1) Increases as temperature increases
(2) Decreases as temperature decreases
(3) Remains unaffected with the change in temperature
(4) Increases at low temperature and decreases at high
    temperature

Options :

5531723173. 1

5531723174. 2

5531723175. 3

5531723176. 4

Question Number : 135 Question Id : 553172809 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Stefan - Boltzmann law is applicable for heat transfer by

(1) Convection
(2) Conduction
(3) Radiation
(4) Conduction and radiation combined

Options :

5531723177. 1

5531723178. 2

5531723179. 3

5531723180. 4

Question Number : 136 Question Id : 553172810 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bernoulli's principle is based on the law of conversation of

(1) Mass
(2) Momentum
(3) Energy
(4) Velocity

Options :

5531723181. 1

5531723182. 2

5531723183. 3

5531723184. 4

Question Number : 137 Question Id : 553172811 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

From the hydraulic point of view, the most efficient cross-section
of an open channel is

(1) Semi-circular
(2) Trapezoidal
(3) Parabolic
(4) Rectangular

Options :

5531723185. 1

5531723186. 2

5531723187. 3

5531723188. 4

Question Number : 138 Question Id : 553172812 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is an inversion of a double slider crank mechanism?

(1) Oldham's coupling

(2) Double sliding mechanism

(3) Quick return motion mechanism

(4) Whitworth mechanism

Options :

5531723189. 1

5531723190. 2

5531723191. 3

5531723192. 4

Question Number : 139 Question Id : 553172813 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The velocity of a fluid in a pipe of diameter 'D' is 'V'. The pipe is connected to another pipe of diameter '2D'. The Reynold's number in the pipe of diameter 'D' in relation to the pipe of diameter '2D' is:

(1) Double

(2) Four times

(3) Half

(4) Same

Options :

5531723193. 1

5531723194. 2

5531723195. 3

5531723196. 4

Question Number : 140 Question Id : 553172814 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A mixture of air and water vapour is adiabatically cooled. The lowest temperature of the mixture thus achieved is equal to:

(1) Dry bulb temperature

(2) Wet bulb temperature

(3) Dew point temperature

(4) Critical temperature

Options :

5531723197. 1

5531723198. 2

5531723199. 3

5531723200. 4

Question Number : 141 Question Id : 553172815 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Hot wire anemometer is a device used to measure:

(1) Liquid discharge
(2) Pressure in gases
(3) gas velocities
(4) Temperature

Options :

5531723201. 1

5531723202. 2

5531723203. 3

5531723204. 4

Question Number : 142 Question Id : 553172816 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A chromatograph is used for:

(1) Measuring flow rate of gas
(2) Measuring temperature of gas
(3) Analyzing composition of gas
(4) Measuring pressure of gas

Options :

5531723205. 1

5531723206. 2

5531723207. 3

5531723208. 4

Question Number : 143 Question Id : 553172817 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What does optical pyrometer measure?

(1) Light intensity
(2) Low temperature
(3) High temperature
(4) Light intensity and high temperature

Options :

5531723209. 1

5531723210. 2

5531723211. 3

5531723212. 4

Question Number : 144 Question Id : 553172818 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which is NOT true for a transformer?
(1) A device for changing the voltage without change in frequency
(2) Rated in kilovolt ampere (KVA)
(3) Delivers energy at a lower voltage
(4) Converts electrical energy to mechanical energy

Options :

5531723213. 1

5531723214. 2

5531723215. 3

5531723216. 4

Question Number : 145 Question Id : 553172819 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

How many bits are there in one byte?

(1) 2
(2) 4
(3) 8
(4) 16

Options :

5531723217. 1

5531723218. 2

5531723219. 3

5531723220. 4

Question Number : 146 Question Id : 553172820 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which is NOT an output device?

(1) Keyboard
(2) Monitor
(3) Plotter
(4) Printer

Options :

5531723221. 1

5531723222. 2

5531723223. 3

5531723224. 4

Question Number : 147 Question Id : 553172821 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Software used to interact between user programs and computer is called:
(1) Application software
(2) System Software
(3) Operation software
(4) Custom mode software

Options :

5531723225. 1

5531723226. 2

5531723227. 3

5531723228. 4

Question Number : 148 Question Id : 553172822 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The binary equivalent of 7 is:

(1) 111
(2) 1010
(3) 100
(4) 101

Options :

5531723229. 1

5531723230. 2

5531723231. 3

5531723232. 4

Question Number : 149 Question Id : 553172823 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Power factor in a DC generator is equal to

(1) 0.5
(2) 1.0
(3) 1.5
(4) 2.0

Options :

5531723233. 1

5531723234. 2

5531723235. 3

5531723236. 4

Question Number : 150 Question Id : 553172824 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An AC motor needs star-delta-starter having capacity more than

(1) 0.5 hp
(2) 1.0 hp
(3) 1.5 hp
(4) 2.0 hp

Options :

5531723237. 1

5531723238. 2

5531723239. 3

5531723240. 4

Question Number : 151 Question Id : 553172825 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The quartile deviation of the sampling distribution of means is known as

(1) Probable error
(2) Standard error
(3) Standard deviation
(4) Variance

Options :

5531723241. 1

5531723242. 2

5531723243. 3

5531723244. 4

Question Number : 152 Question Id : 553172826 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Karl Pearson measure & coefficient of skewness is:

(1) $\dfrac{2(mean-median)}{Standard\ deviation}$

(2) $\dfrac{(mean-median)}{Standard\ deviation}$

(3) $\dfrac{median-mode}{Standard\ deviation}$

(4) $\dfrac{mean-mode}{Standard\ deviation}$

Options :

5531723245. 1

5531723246. 2

5531723247. 3

5531723248. 4

Question Number : 153 Question Id : 553172827 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In which sampling the number of observations required is not determined in advance but depends on results of the observations made?

(1) Multi-phase sampling
(2) Purposive sampling
(3) Sequential sampling
(4) Quota sampling

Options :

5531723249. 1

5531723250. 2

5531723251. 3

5531723252. 4

Question Number : 154 Question Id : 553172828 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the assumption is wrong, under which t-test is applied?

(1) Parent population is normal
(2) Sample has been selected randomly
(3) Sample size is large
(4) Population standard deviation is not known

Options :

5531723253. 1

5531723254. 2

5531723255. 3

5531723256. 4

Question Number : 155 Question Id : 553172829 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which experimental design, throws light on the main effects and all the possible interactions of the different ingredients and that too with the same precision?

(1) Factorial
(2) RBD
(3) LSD
(4) CRD

Options :

5531723257. 1

5531723258. 2

5531723259. 3

5531723260. 4

Question Number : 156 Question Id : 553172830 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

There are two statements given below:

A. Arithmetic mean of the two regression coefficients is greater than the correlation coefficient.
B. If one of the regression coefficient is greater than unity, the other must be less than unity

(1) Both A and B are true
(2) A is true and B is false
(3) A is false and B is true
(4) Both A and B are false

Options :

5531723261. 1

5531723262. 2

5531723263. 3

5531723264. 4

Question Number : 157 Question Id : 553172831 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What is correct formula to ascertain the value of mode, if it is ill defined?

(1) Mode = 3 median − 2 mean
(2) Mean = 3 mode − median
(3) Median = 3 mode − 2 mean
(4) Mean = 3 median − 2 mode

Options :

5531723265. 1

5531723266. 2

5531723267. 3

5531723268. 4

Question Number : 158 Question Id : 553172832 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Ogive is otherwise known as

(1) Frequency curve
(2) Frequency polygon
(3) Cumulative Frequency curve
(4) Histogram

Options :

5531723269. 1

5531723270. 2

5531723271. 3

5531723272. 4

Question Number : 159 Question Id : 553172833 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one is NOT a merit of arithmetic mean (AM)?
(1) AM is capable of further algebraic treatment.
(2) AM does not depend on the position in the series.
(3) AM is affected by extreme values.
(4) AM is based on all the observations.

Options :

5531723273. 1

5531723274. 2

5531723275. 3

5531723276. 4

Question Number : 160 Question Id : 553172834 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which is NOT measure of dispersion?

(1) Range
(2) Standard deviation
(3) Quartile deviation
(4) Harmonic mean

Options :

5531723277. 1

5531723278. 2
5531723279. 3
5531723280. 4