

## GSECL Recruitment Exam 2022

Roll No.	
Registration No.	
Participant Name	
Test Center Name	ION Digital Zone
Test Date	31/08/2022
Test Time :	8:30 AM - 10:30 AM
Post Name	VS JE (Mechanical)
Registered Photo	
Exam Day Photo	

### Section : General Knowledge

**Q.1** Identify the founder of the internationally famous Isha Foundation, headquartered in Coimbatore.

- Ans**
- 1. Avdhoot Shivanand
  - 2. Bhakti Vedanta Swami Prabhupada
  - 3. Sadguru Jaggi Vasudev
  - 4. Mata Amritanandamayi

Q.2 In which of the following countries is the famous tourism destination of Phuket located?

- Ans
- 1. Malaysia
  - 2. Vietnam
  - 3. South Korea
  - 4. Thailand

Question ID : 740048606

Q.3 The famous Dassam Falls is located in which of the following states of India?

- Ans
- 1. Jharkhand
  - 2. Bihar
  - 3. West Bengal
  - 4. Orissa

Question ID : 740048607

Q.4 Which of the following art forms of Kerala has humour, satire and social criticism at its core theme?

- Ans
- 1. Kathakali
  - 2. Mohiniyattam
  - 3. Chavittu Natakam
  - 4. Ottan Thullal

Question ID : 740048603

Q.5 The former princely kingdom of Travancore is today part of which modern state of India?

- Ans
- 1. Kerala
  - 2. Gujarat
  - 3. Odisha
  - 4. Bihar

Question ID : 740048602

Q.6 In the context of navigation, what is the full form of GPS?

- Ans
- 1. Gradient Positioning System
  - 2. Global Positioning System
  - 3. Globally Positioned Satellite
  - 4. General Positioning System

Q.7 The city of Surat, famous for its silk and diamond business, is located in which state of India?

- Ans
- 1. Madhya Pradesh
  - 2. Maharashtra
  - 3. Rajasthan
  - 4. Gujarat

Question ID : 740048604

Q.8 The Bambarakanda Falls is one of the tallest waterfalls of which of the following countries?

- Ans
- 1. Sri Lanka
  - 2. Pakistan
  - 3. Nepal
  - 4. Bhutan

Question ID : 740048605

Q.9 In the context of computer terminologies, what is the full form of GIF?

- Ans
- 1. Global Imaging Format
  - 2. Global Information Format
  - 3. Graphics Interchange Format
  - 4. General Information Format

Question ID : 740048608

Q.10 Which of the following ancient dynasties covered vast areas of what today's state of Kerala is?

- Ans
- 1. Chalukya dynasty
  - 2. Chera dynasty
  - 3. Kanva dynasty
  - 4. Kattabomman dynasty

Question ID : 740048609

Q.11 Select the most appropriate option to fill in the blanks.

Plants \_\_\_\_\_ the farms died whenever the wind brought ashes \_\_\_\_\_ the volcano.

- Ans
- 1. on; in
  - 2. at; by
  - 3. on; from
  - 4. in; on

Question ID : 740048612

Q.12 Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

They were all sound asleep when the thief entered, isn't it?

- Ans
- 1. didn't they
  - 2. No improvement required
  - 3. weren't they
  - 4. were they

Question ID : 740048619

Q.13 Select the INCORRECTLY spelt word.

- Ans
- 1. Concensus
  - 2. Conscience
  - 3. Conscious
  - 4. Consistent

Question ID : 740048618

Q.14 Select the correctly spelt word.

- Ans
- 1. Transparency
  - 2. Transparensy
  - 3. Tranparency
  - 4. Transperancy

Question ID : 740048617

**Q.15** Parts of the following sentence have been given as options. Select the part that contains the error from the given options.  
If you don't find any error, mark 'No error' as your answer.

They will reach here through ten minutes if there is no traffic.

- Ans**
- 1. through ten minutes
  - 2. if there is no traffic
  - 3. No error
  - 4. They will reach here

Question ID : 740048613

**Q.16** Select the most appropriate ANTONYM of the given word.

Accumulate

- Ans**
- 1. Compile
  - 2. Scatter
  - 3. Hoard
  - 4. Procure

Question ID : 740048614

**Q.17** Select the option that can be used as a one-word substitute for the given group of words.

A person who can endure pain or hardship without showing their feelings or complaining.

- Ans**
- 1. Stoic
  - 2. Egoist
  - 3. Sceptic
  - 4. Agnostic

Question ID : 740048616

**Q.18** Select the most appropriate synonym of the given word.

Approbation

- Ans**
- 1. Exception
  - 2. Opposition
  - 3. Rejection
  - 4. Admiration

Question ID : 740048615

Q.19 Select the most appropriate option to fill in the blanks.

Anu had \_\_\_\_\_ dream of becoming \_\_\_\_\_ great dancer one day.

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

Question ID : 740048611

Q.20 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. It really didn't make much money.
- B. He told me about his parents in Kolkata.
- C. We chatted through dinner.
- D. His father owned a printing press.

- Ans
- 1. CBDA
  - 2. BADC
  - 3. CABD
  - 4. ACDB

Question ID : 740048620

Section : Mechanical Engineering

Q.21 Which of the following statements is INCORRECT regarding cutting speed in the context of metal machining?

- Ans
- 1. Harder and stronger materials require higher cutting speed.
  - 2. Cutting temperature increases with increasing cutting speed.
  - 3. Tools made of cemented carbides will cut at higher cutting speeds than carbon steel tools.
  - 4. As the cutting speed increases, cutting tool life decreases.

Question ID : 740048632

Q.22 If a thermal reservoir at 727°C supplies heat at the rate of 2000 kJ/s, ambient is at 20°C, the exergy of the system will be:

- Ans
- 1. 1575 kW
  - 2. 1944 kW
  - 3. 1960 kW
  - 4. 1414 kW

Question ID : 740048661



Q.23 Which of the following represents the volume of a solid in Cartesian form?

- Ans
- 1.  $\iiint_V dx dy$
  - 2.  $\iiint_V dx dy dz$
  - 3.  $\iint_R r.dr.d\theta$
  - 4.  $\iint_R dx dy$

Question ID : 740048652

Q.24 If A is a real matrix and for this matrix  $A^{-1} = A^T$ , then A will be:

- Ans
- 1. an orthogonal matrix
  - 2. a normal matrix
  - 3. a Hermitian matrix
  - 4. a symmetric matrix

Question ID : 740048680

Q.25 Which of the following conditions describes a beam loaded while presenting theory of pure bending?

- Ans
- 1. Shear force varies linearly and bending moment varies hyperbolically.
  - 2. Shear force varies linearly and bending moment is zero.
  - 3. There is no shear force and bending moment is constant.
  - 4. Shear force and bending moment are constant throughout.

Question ID : 740048642

Q.26 Which of the following parameters affects the buckling load for a given material?

- Ans
- 1. Slenderness ratio and Modulus of Elasticity
  - 2. Modulus of Rigidity and cross-section area
  - 3. Modulus of Rigidity and Modulus of Elasticity
  - 4. Poisson's ratio and Bulk Modulus

Question ID : 740048643

Q.27 Which of the following statement about Instantaneous Centre (I-Centre) is INCORRECT?

Ans  1.

In a pivoted joint the centre of the pivot is the I-centre for the two links of the pivot.

2.

In a pure rolling contact of the two links of the I-centre lies at the point of contact at the given instant.

3.

If three plane bodies have relative motion amongst themselves their I-centre does not lie on a straight line.

4.

The position of the I-centre changes with the motion of the body.

Question ID : 740048645

Q.28 Which of the following is NOT a quantitative approach for forecasting?

Ans  1. Delphi method

2. Past average

3. Regression method

4. Moving average method

Question ID : 740048670

Q.29 Cotter joint is used to connect which of the following parts?

Ans  1. Two inclined rods

2. Two co-axial power transmission shaft

3. Two co-axial rods

4. Two co-axial rotating shaft

Question ID : 740048664

Q.30 The ends of a bar are fixed to rigid supports and temperature of the bar is raised by  $80^{\circ}\text{C}$ . The strain that occurs in the bar will be:

Ans  1. volumetric strain

2. shear strain

3. tensile strain

4. thermal strain

Question ID : 740048656

Q.31 A body weighing 350 N is lying on a horizontal plane. The coeff. of friction is 0.3. A force of 90 N is acting on the body at an angle of  $30^{\circ}$  with the horizontal. Find the normal reaction (R).

Ans  1. 500 N

2. 259 N

3. 610 N

4. 155 N

Question ID : 740048635



**Q.32** If the shear stress will be maximum on planes inclined at  $\theta^\circ$  to the normal section of a body subjected to direct tensile stress, the value of  $\theta^\circ$  will be:

- Ans**
- 1.  $90^\circ$  and  $135^\circ$
  - 2.  $45^\circ$  and  $270^\circ$
  - 3.  $90^\circ$  and  $270^\circ$
  - 4.  $45^\circ$  and  $135^\circ$

Question ID : 740048657

**Q.33** Which of the following statements for number of transfer units (NTU) is INCORRECT?

- Ans**
- 1. For a given value of capacity ratio the effectiveness increases with NTU.
  - 2. Lesser the NTU the more effective is the heat exchanger.
  - 3. NTU is a dimensionless parameter.
  - 4. The greater the NTU, the smaller the size of the heat exchanger.

Question ID : 740048648

**Q.34** Which of the following angles of a drill is equivalent to the back rake angle of a single point cutting tool?

- Ans**
- 1. Helix angle
  - 2. Lip relief angle
  - 3. Clearance angle
  - 4. Point angle

Question ID : 740048651

**Q.35** The maximum number of tools that can be mounted on the turret of a turret lathe is:

- Ans**
- 1. 4
  - 2. 6
  - 3. 8
  - 4. 2

Question ID : 740048667

**Q.36** Determine the equivalent spring stiffness when the mass is suspended at the bottom of two springs connected in series. The stiffnesses of the two springs are 9 N/mm and 16 N/mm, respectively.

- Ans**
- 1. 11.52 N/mm
  - 2. 1.44 N/mm
  - 3. 5.76 N/mm
  - 4. 2.88 N/mm

Question ID : 740048646

**Q.37** A fluid flows at 6 m/s through a 250 mm diameter pipe. At a particular section, the diameter of the pipe is reduced to 150 mm. Find the fluid velocity in the reduced section of the pipe.

- Ans**
- 1. 32.67 m/s
  - 2. 16.67 m/s
  - 3. 6.67 m/s
  - 4. 8.67 m/s

Question ID : 740048639

**Q.38** Which of the following types of governor consists of leaf springs?

- Ans**
- 1. Hartnell governor
  - 2. Pickering governor
  - 3. Watt governor
  - 4. Proell governor

Question ID : 740048637

**Q.39** Which of the following statements is INCORRECT when we compare rolling contact bearings and sliding contact bearings?

- Ans**
- 1. Rolling contact bearings are suitable where there are frequent starts compared to sliding contact bearing.
  - 2. Rolling contact bearings generate more noise compared with sliding contact bearings.
  - 3. Rolling contact bearings require considerable radial space, while sliding contact bearings require more axial space.
  - 4. Rolling contact bearings require more starting torque compared with sliding contact bearings.

Question ID : 740048624

**Q.40** Find the value of  $\lim_{y \rightarrow -2} \frac{y+2}{\ln(y+3)}$ .

- Ans**
- 1. 2
  - 2. 0
  - 3. -1
  - 4. 1

Question ID : 740048672

Q.41 Which of the following is an example of class II kinematic pair with two restraints?

- Ans
- 1. Sphere-cylinder
  - 2. Sphere-plane
  - 3. Sphere-slotted cylinder
  - 4. Prism-plane

Question ID : 740048622

Q.42 In the context of a Cupola furnace, which of the following zones removes moisture and volatile matter?

- Ans
- 1. Combustion zone
  - 2. Reducing zone
  - 3. Preheating zone
  - 4. Melting zone

Question ID : 740048650

Q.43 In an open channel flow, Froude number less than unity indicates \_\_\_\_\_.

- Ans
- 1. critical flow
  - 2. subcritical flow
  - 3. chocked flow
  - 4. supercritical flow

Question ID : 740048659

Q.44 Calculate brake power developed if brake thermal efficiency of an engine is 19.56%. Calorific value of fuel used in the engine is 46000 kJ/kg and fuel consumed is 30 kg/hr.

- Ans
- 1. 100 kW
  - 2. 37.5 kW
  - 3. 150 kW
  - 4. 75 kW

Question ID : 740048640

Q.45 The total area bounded by the curve  $y = x$  and x-axis from  $-3$  to  $3$  will be:

- Ans
- 1. 4
  - 2. 6
  - 3. 8
  - 4. 9

Question ID : 740048673

Q.46 Which of the following is the general solution of the equation  $z = ax+by+a^2b^2$ ?

- Ans
- ✓ 1.  $z = px+qy+p^2q^2$
  - ✗ 2.  $z = px+qy+p^2 +q^2$
  - ✗ 3.  $z = px+qy+pq$
  - ✗ 4.  $z = px+qy+p^2 -q^2$

Question ID : 740048634

Q.47 Which of the following statements is INCORRECT?

- Ans
- ✗ 1. There is no interaction of an isolated system with the surroundings.
  - ✓ 2. Internal energy is path function.
  - ✗ 3. Energy of an isolated system is always constant.
  - ✗ 4. Cyclic integral of any property is zero.

Question ID : 740048628

Q.48 If the centroid of the displaced volume of fluid is below the CG of the submerged body. The body will experience:

- Ans
- ✗ 1. rotation
  - ✓ 2. unstability
  - ✗ 3. neutral equilibrium
  - ✗ 4. stability

Question ID : 740048658

Q.49 Which of the following is/are NOT an element of the flexible manufacturing system?

- Ans
- ✗ 1. Control system
  - ✗ 2. Workstations and cells
  - ✓ 3. Demand-supply control
  - ✗ 4. Automated handling

Question ID : 740048669

**Q.50** Which of the following statements is INCORRECT regarding dynamic characteristics of a measurement system?

**Ans**  1.

When the measuring system begins to respond after dead time to the applied input, it is called time delay measuring lag.

2.

Fidelity is the degree to which the measurement system indicates changes in the measured quantity with maximum dynamic error.

3.

Speed of response is defined as the speed with which the measuring instrument responds to the changes in the measured quantity.

4.

Measuring lag is the time when an instrument begins to respond to a change in the measured quantity.

Question ID : 740048633

**Q.51** Evaluate the shaft diameter if the principal shear stress in a shaft is  $65 \text{ N/mm}^2$ , bending moment is  $1100 \text{ kN-mm}$  and the torsional moment is  $350 \text{ kN-mm}$ .

**Ans**  1. 90 mm

2. 75 mm

3. 45 mm

4. 60 mm

Question ID : 740048638

**Q.52** Calculate Lewis beam strength of tooth of spur gear if module is 3 mm, face width is 40 mm, allowable bending stress is 220 MPa and Lewis form factor is 0.323.

**Ans**  1. 6121 N

2. 42970 N

3. 12485 N

4. 8527 N

Question ID : 740048654

**Q.53** Find the Laplace transform of  $f(t) = (1/a) \sin(at)$ .

**Ans**  1.  $L\{f(t)\} = s / (s^2 - a^2)$

2.  $L\{f(t)\} = 1 / (s^2 + a^2)$

3.  $L\{f(t)\} = s^2 / (s^2 + a^2)$

4.  $L\{f(t)\} = 2 / (s^2 + a^2)$

Question ID : 740048641



**Q.54** Which of the following for power transmission through a pipe is NOT true? Where, H is total supply head,  $h_f$  is head loss due to friction.

**Ans**  1.

Power transmission through pipe is maximum when head loss due to friction is 1/3 of the total supply head.

2. Power transmission efficiency =  $(H-h_f) / H$ .

3.

The maximum possible power transmission efficiency is 100%.

4.

The maximum possible power transmission efficiency is 66.66%.

Question ID : 740048647

**Q.55** A bar of 16 mm diameter is subjected to a load of 3 kN at its end. Find elongation of the bar. The length of the bar is 50 m and  $E = 200$  GPA

**Ans**  1. 7.46 mm

2. 0.9325 mm

3. 3.73 mm

4. 1.865 mm

Question ID : 740048621

**Q.56** The series  $\sum_{n=0}^{\infty} \frac{1}{4^n} (y - 1)^{2n}$  converges for which values?

**Ans**  1.  $y < 2$

2.  $-3 < y < 2$

3.  $-1 < y < 3$

4.  $-2 < y < 2$

Question ID : 740048675

**Q.57** A bevel protractor is used for \_\_\_\_\_.

**Ans**  1. linear measurement

2. straightness measurement

3. angle measurement

4. flatness measurement

Question ID : 740048668



Q.58 Which of the following governors is more sensitive?

- Ans
- 1. Porter governor
  - 2. Hartnell governor
  - 3. Inertia governor
  - 4. Watt governor

Question ID : 740048660

Q.59 Find the Laplace transform of  $f(t) = \cosh(at)$ .

- Ans
- 1.  $L\{f(t)\} = s^2 / (s^2 - a^2)$
  - 2.  $L\{f(t)\} = s / (s^2 - a^2)$
  - 3.  $L\{f(t)\} = s / (s^2 + a^2)$
  - 4.  $L\{f(t)\} = 1 / (s^2 + a^2)$

Question ID : 740048653

Q.60 What will be the black body emissive power and peak wavelength for surface at 1000 K? The Stefan-Boltzmann constant =  $5.67 \times 10^{-8} \text{ W/m}^2\text{K}^4$ , Wien's constant = 2898  $\mu\text{mK}$ .

- Ans
- 1. 56.69  $\text{kW/m}^2$  and 28.98 m
  - 2. 56.69  $\text{kW/m}^2$  and 2.898  $\mu\text{m}$
  - 3. 56.69  $\text{W/m}^2$  and 2.898  $\mu\text{m}$
  - 4. 566.9  $\text{W/m}^2$  and 2.898 m

Question ID : 740048627

Q.61 In the deep drawing process, the defect 'directional earing' occurs for which reason?

- Ans
- 1. Non-symmetry placement of blank
  - 2. Insufficient blank holding force
  - 3. Planer anisotropy of blank
  - 4. Coarse grain structure

Question ID : 740048665

Q.62 For flow through nozzle and diffusers, which fluid property remains constant?

- Ans
- 1. Velocity
  - 2. Stagnation enthalpy
  - 3. Entropy
  - 4. Enthalpy

Question ID : 740048662

Q.63 What will be the fine effectiveness ( $\epsilon$ ), when Biot number is less than 1?

- Ans
- 1.  $\epsilon < 1$
  - 2.  $\epsilon = 1$
  - 3.  $\epsilon = 0$
  - 4.  $\epsilon > 1$

Question ID : 740048663

Q.64 Which of the following inventory control techniques is based on the criticality or cost of incurring during stock out?

- Ans
- 1. VED
  - 2. SDE
  - 3. ABC
  - 4. HML

Question ID : 740048671

Q.65 A refrigerator operates between temperature limits of  $-23^\circ\text{C}$  and  $27^\circ\text{C}$ . If the heat rejection is  $1.85 \text{ kJ/s}$ . What is the power required to pump this heat out?

- Ans
- 1.  $0.5 \text{ kW}$
  - 2.  $0.74 \text{ kW}$
  - 3.  $0.37 \text{ kW}$
  - 4.  $1.37 \text{ kW}$

Question ID : 740048649

Q.66 Find a normal pressure on chip in orthogonal turning if the cutting force is  $8570 \text{ N}$ , depth of cut is  $0.39 \text{ cm}$  and feed rate is  $0.3 \text{ mm/rev}$ .

- Ans
- 1.  $3324 \text{ N/mm}^2$
  - 2.  $14324 \text{ N/mm}^2$
  - 3.  $4324 \text{ N/mm}^2$
  - 4.  $7324 \text{ N/mm}^2$

Question ID : 740048655

**Q.67** An airship of 2.5 m diameter and 15 m length is to be studied in a wind tunnel. The maximum airship speed is 3 m/s. Calculate the mean model wind tunnel speed if the model is made to  $1/10^{\text{th}}$  scale. Assume the same air pressure and temperature for model and prototype.

- Ans**
- 1. 15 m/s
  - 2. 40 m/s
  - 3. 30 m/s
  - 4. 10 m/s

Question ID : 740048625

**Q.68** Which of the following statements is INCORRECT about critical speed of shaft?

- Ans**
- 1. When the angular velocity of the shaft equals the natural circular frequency of the shaft, the deflection tends to be very small.
  - 2. When the angular velocity of the shaft equals the natural circular frequency of the shaft, resonance occurs.
  - 3. High speed turbines use the principle of critical speed by speeding up the rotor rapidly beyond the critical speed.
  - 4. Critical speed of shaft is the speed at which the shaft tends to vibrate violently in the transverse direction.

Question ID : 740048623

**Q.69** Which of the following is an extrinsic quantity?

- Ans**
- 1. Internal energy
  - 2. Pressure
  - 3. Temperature
  - 4. Translation velocity

Question ID : 740048676

**Q.70** Thermit welding is which type of joining process?

- Ans**
- 1. Homogenous
  - 2. Autogeneous
  - 3. Combination of autogeneous and heterogeneous
  - 4. Heterogeneous

Question ID : 740048666

Q.71 Which of the following statements is FALSE regarding the Grashof number (Gr)?

Ans  1.

The Grashof number provides information whether the fluid flow is laminar or turbulent in natural convection.

2.

The Grashof number is the ratio of viscous force to buoyancy force.

3. The Grashof number is a dimensionless parameter.

4.

$Gr/Re^2$  is a measure of the relative importance of free convection in relation to forced convection.

Question ID : 740048626

Q.72 In the context of seamless tubes, which of the following is the correct expansion of OCTG?

Ans  1. Oil Country Tubular Goods

2. Oil Casting Tubular Goods

3. Oil Country Tubular Grinders

4. Oil Country Tensile Goods

Question ID : 740048631

Q.73 The regeneration process in the gas turbine cycle is used to improve which of the following parameters?

Ans  1. Back work ratio

2. Pressure ratio

3. Thermal efficiency

4. Heat input

Question ID : 740048677

Q.74 Which of the following for two principle stress ( $\sigma_1, \sigma_2$ ) regarding maximum shear strain energy theory is correct?  
(Where  $\sigma_t$  is permissible stress in simple tension.)

Ans  1. For design:  $\sigma_1^2 + \sigma_2^2 - \sigma_1 \sigma_2 = \sigma_t^2$

2. For design:  $\sigma_1^2 + \sigma_2^2 + \sigma_1 \sigma_2 = \sigma_t^2$

3. For design:  $\sigma_1^2 + \sigma_2^2 = \sigma_t^2$

4. For design:  $\sigma_1^2 + \sigma_2^2 - (\sigma_1 + \sigma_2) = \sigma_t^2$

Question ID : 740048644

Q.75 A friction experienced by a body when it is in motion is termed as:

- Ans
- 1. limiting friction
  - 2. fluid friction
  - 3. dynamic friction
  - 4. kinematic friction

Question ID : 740048678

Q.76 Which of the following statements is INCORRECT regarding reheating in a steam turbine?

- Ans
- 1. Erosion problems in steam turbine are reduced.
  - 2. There is an increased output of the turbine.
  - 3. Thermal efficiency is improved.
  - 4. Maintenance is reduced.

Question ID : 740048629

Q.77 Which of the following joints is used in the valve mechanism of reciprocating engines?

- Ans
- 1. Rivet
  - 2. Cotter
  - 3. Knuckle
  - 4. Universal

Question ID : 740048679

Q.78 The solution of the differential equation  $(x + 2y^3)dy = ydx$  will be:

- Ans
- 1.  $y = (C + y^2)/x$
  - 2.  $x = (C + y^2)/y$
  - 3.  $y = x(C + y^2)$
  - 4.  $x = y(C + y^2)$

Question ID : 740048674

Q.79 An object having mass 8 kg moves with a velocity of 1.5 m/s. An accelerating force of 20 N is applied on the object. Determine its velocity after 2 seconds.

- Ans
- 1. 2.5 m/s
  - 2. 3.5 m/s
  - 3. 6.5 m/s
  - 4. 13 m/s

Question ID : 740048636







**Q.80** Which of the following is correct for austenite grain size specified by the American Society for Testing and Materials (ASTM)? n is the number of grains per square inch at a magnification of 100x and N is ASTM grain size number.

- Ans**
- 1.  $n = 2^N$
  - 2.  $n = 2^{N-1}$
  - 3.  $n = 2^{N+1}$
  - 4.  $n = 2^{2N}$

Question ID : 740048630

Section : Computer Knowledge

**Q.81** Match the columns.

MS-Word 2019 Icons	Meaning
a) 	i) Font color
b) 	ii) Format painter
c) 	iii) Clear all formatting
d) 	iv) Text highlight color

- Ans**
- 1. a-ii, b-iii, c-iv, d-i
  - 2. a-i, b-iii, c-iv, d-ii
  - 3. a-ii, b-iv, c-iii, d-i
  - 4. a-iii, b-ii, c-iv, d-i

Question ID : 740048685

**Q.82** In MS-Excel 2019, which of the following charts' appearance is like that of a spider web?

- Ans**
- 1. Funnel
  - 2. Radar
  - 3. Treemap
  - 4. Sunburst

Question ID : 740048686



Q.83 How many ports are required to connect 6 nodes using mesh topology?

- Ans
- 1. 30
  - 2. 35
  - 3. 6
  - 4. 36

Question ID : 740048690

Q.84 Which of the following technologies is/are the fifth generation of computers based on?

- Ans
- 1. Artificial Intelligence
  - 2. Transistors
  - 3. Very Large Scale Integrated (VLSI) circuits
  - 4. Integrated Circuits (IC's)

Question ID : 740048681

Q.85 In symmetric-key cryptography, the same \_\_\_\_\_ key is used by the sender (for encryption) and the receiver (for decryption).

- Ans
- 1. primary
  - 2. private
  - 3. secondary
  - 4. public

Question ID : 740048687

Q.86 Which of the following is NOT a controlled access protocol under taxonomy of multiple-access protocols?

- Ans
- 1. Reservation
  - 2. Aloha
  - 3. Token passing
  - 4. Polling

Question ID : 740048689

**Q.87** Which of the following statements about thread is/are true?

- a) A process is the instance of a computer program that is being executed by one or many threads.
- b) An example of an application that could make use of threads is a file server.
- c) Windows XP is multi-tasking operating system.

- Ans**
- 1. Only b
  - 2. a, b and c
  - 3. Only a and b
  - 4. Only a

Question ID : 740048683

**Q.88** Which was the first mechanical computing device to count large numbers?

- Ans**
- 1. Napier's Bones
  - 2. Slide Rule
  - 3. ABACUS
  - 4. Jacquard loom

Question ID : 740048682

**Q.89** Identify whether the given statements are true or false.

- a) ROM is a non-volatile memory having a limited storage capacity.
- b) Secondary memory is a storage other than the hard disk and magnetic pen drive.
- c) Performance of the cache memory is higher than the secondary memory.

- Ans**
- 1. a-True, b-False, c-True
  - 2. a-False, b-False, c-False
  - 3. a-False, b-True, c-False
  - 4. a-False, b-True, c-True

Question ID : 740048684

Q.90 Match the columns.

Network Terms	Details/Examples
a) Wi-Fi	i) Internet browser
b) WAN	ii) Wireless LAN
c) WLAN	iii) Wide Area Network
d) Server	iv) Wireless fidelity
e) Client	v) A powerful computer that provides a service, such as centralised file storage

- Ans
- ✗ 1. a-i, b-ii, c-iii, d-v, e-iv
  - ✗ 2. a-iv, b-iii, c-i, d-v, e-ii
  - ✗ 3. a-v, b-iii, c-ii, d-iv, e-i
  - ✓ 4. a-iv, b-iii, c-ii, d-v, e-i

Question ID : 740048688

Section : Gujarati Language & Grammar

Q.91 'એકધા' શબ્દનો યોગ્ય વિરુદ્ધાર્થી શબ્દ નીચેના વિકલ્પોમાંથી પસંદ કરો

- Ans
- ✗ 1. ચંદ્ર
  - ✓ 2. બહુધા
  - ✗ 3. સૂર્ય
  - ✗ 4. વિવિધતા

Question ID : 740048692

Q.92 'એ છોકરો બાળપોથી બરાબર વાંચી શકે છે પણ બરાબર લખી શકતો નથી' કયા પ્રકારનું વાક્ય છે?

- Ans
- 1. સાદું વાક્ય
  - 2. સંકુલ વાક્ય
  - 3. મિશ્ર વાક્ય
  - 4. ઉદગાર વાક્ય

Question ID : 740048698

Q.93 'સૌનું દુર્ભાગ્ય છે ડિગ્રીને રોજગારી સાથે જોડી દેવામાં આવી છે તે આપણું.' અશુદ્ધ વાક્યનું શુદ્ધ વાક્ય નીચેનામાંથી પસંદ કરો

- Ans
- 1. ડિગ્રીને રોજગારી સાથે જોડી દેવામાં આવી છે તે આપણું સૌનું દુર્ભાગ્ય છે
  - 2. ડિગ્રીને રોજગારી સાથે જોડી દેવામાં આવી છે તે આપણું સૌનું દુર્ભાગ્ય નથી
  - 3. ડિગ્રીને રોજગારી સાથે જોડી દેવામાં આવી છે તે આપણું સૌનું ભાગ્ય છે
  - 4. ડિગ્રીને રોજગારી સાથે આપણું સૌનું દુર્ભાગ્ય છે જોડી દેવામાં આવી છે તે

Question ID : 740048696

Q.94 'કાળા અક્ષર કુહાડે મારવા' રૂઢિપ્રયોગનો અર્થ નીચેના વિકલ્પોમાંથી પસંદ કરો

- Ans
- 1. પુસ્તકમાં રંગો ન હોવા
  - 2. પુસ્તક ફાડી નાખવું
  - 3. ભણેલ વ્યક્તિ પસંદ ન હોવી
  - 4. નિરક્ષર હોવું

Question ID : 740048693

Q.95 જે વાક્ય માં એક મુખ્ય વાક્ય અને એક કે તેથી વધુ ગૌણ વાક્યો હોય તે કયા પ્રકારનું વાક્ય ગણાય ?

- Ans
- 1. મિશ્ર વાક્ય
  - 2. સાદું વાક્ય
  - 3. નિષેધ વાક્ય
  - 4. સંકુલ વાક્ય

Question ID : 740048700

Q.96 'માનવજીવનમાં ક્રાંતિકારી પરીવર્તન આવ્યું છે યંત્રયુગના ચમત્કારિક વિકાસથી' અશુદ્ધ વાક્યનું શુદ્ધ વાક્ય નીચેનામાંથી પસંદ કરો.

Ans  1.

યંત્રયુગના ચમત્કારિક વિકાસથી ક્રાંતિકારી પરીવર્તન આવ્યું છે માનવજીવનમાં

2.

યંત્રયુગના ચમત્કારિક વિકાસથી માનવજીવનમાં ક્રાંતિકારી પરીવર્તન આવ્યું નથી

3.

યંત્રયુગના ચમત્કારિક વિકાસથી માનવજીવનમાં ક્રાંતિકારી આવ્યું છે પરીવર્તન

4.

યંત્રયુગના ચમત્કારિક વિકાસથી માનવજીવનમાં ક્રાંતિકારી પરીવર્તન આવ્યું છે

Question ID : 740048697

Q.97 જે વાક્યમાં પ્રજ્ઞ પૂછવાનો ભાવ હોય તે કયા પ્રકારનું વાક્ય ગણાય ?

Ans  1. ઉદ્ગાર વાક્ય

2. નિષેધ વાક્ય

3. પ્રશ્નાર્થવાક્ય

4. વિધિ વાક્ય

Question ID : 740048699

Q.98 'મરવું - મળવું' નો સાચો શબ્દભેદ-અર્થભેદ જણાવો.

Ans  1. મારવું - ભેગા થવું

2. ભેગા થવું - ભેગા થવું

3. ભેગા થવું - મરણ પામવું

4. મરણ પામવું - ભેગા થવું

Question ID : 740048694

Q.99 'જોડ - ઝોળ' નો સાચો શબ્દભેદ-અર્થભેદ જણાવો.

Ans  1. જોડી - ઝાંચ

2. વળગણ - જોડી

3. જોડી - છાંચો

4. જોડી - વળગણ

Question ID : 740048695

Q.100 'अरि' शब्दको योग्य समानार्थी शब्द नीचेना विकल्पोंमांथी पसंद करो

Ans ✓ 1. दुश्मन

✗ 2. दोस्त

✗ 3. नोजियो

✗ 4. साप

