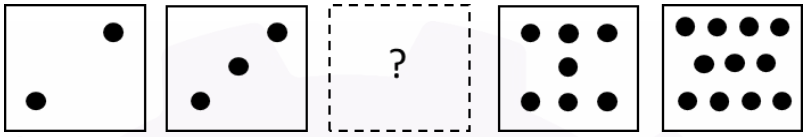
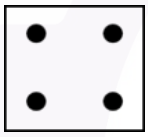
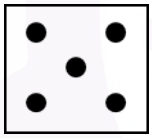
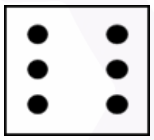
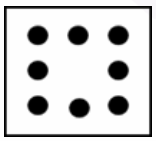
General Aptitude (GA)

Q.1 – Q.5 Carry ONE mark Each

Q.1	"He often _____ the numbers. False claims are not going to help. Honesty _____ trust", said the manager. Choose the option with the correct order of words to fill the blanks.
(A)	exaggerates; engenders
(B)	excels; encourages
(C)	aggravates; alleviates
(D)	diminishes; eliminates

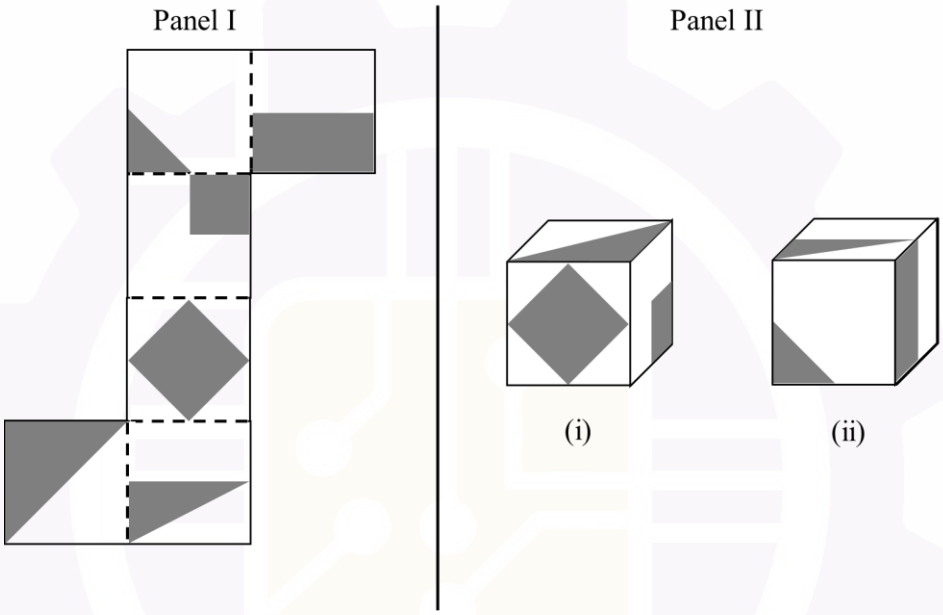
Q.2	In the sequence of tiles shown below, the missing tile indicated by the question mark should be 
(A)	
(B)	
(C)	
(D)	

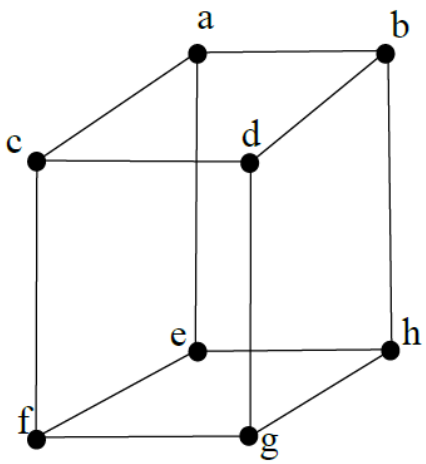
Q.3	A school has 100 students distributed among 1^{st} to 10^{th} standards. Based on this, which one of the following statements is always correct?
(A)	There are at least 10 students who belong to the same standard.
(B)	There is at least one student in each standard.
(C)	There are at most 10 students in 10^{th} standard.
(D)	The total number of students from 1^{st} to 5^{th} standards is at least 50.
Q.4	How many 3-digit numbers can be formed using three distinct single digit prime numbers?
(A)	64
(B)	24
(C)	12
(D)	4

Q.5	In a group of students, 10 students like Mathematics, 12 students like English, 4 students like both Mathematics and English, and 6 students like neither Mathematics nor English. The number of students in the group is ____
(A)	18
(B)	20
(C)	24
(D)	32

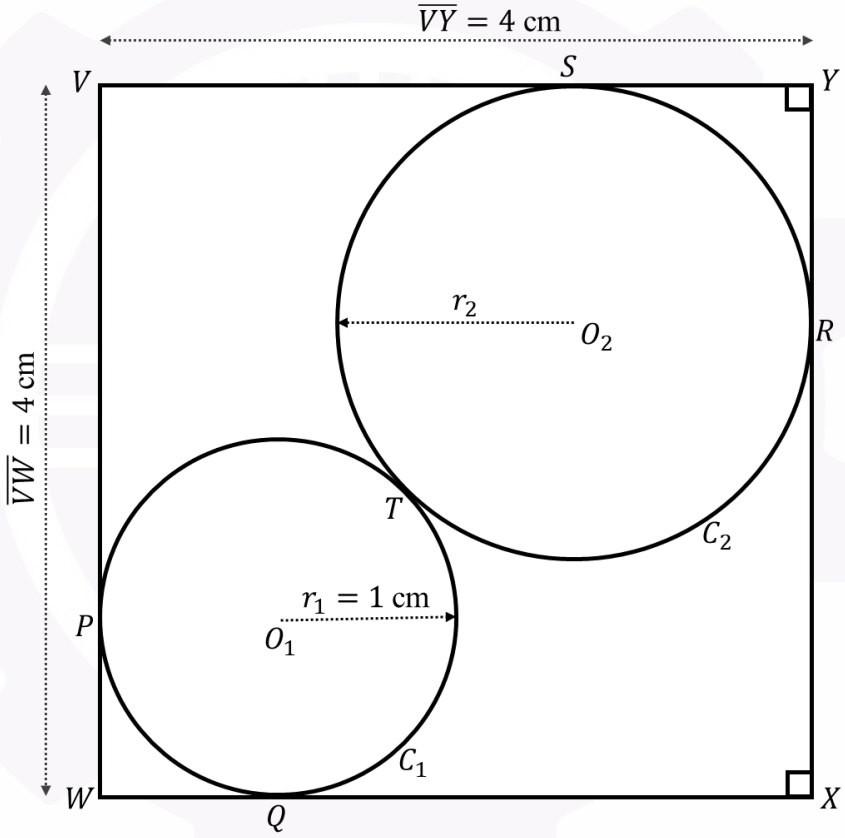
Q.6 – Q.10 Carry TWO marks Each

Q.6	Charity : P :: Retaliation : Q Choose the appropriate pair of words P and Q that fit the analogy.
(A)	P = Parsimonious; Q = Vengeful
(B)	P = Altruistic; Q = Amicable
(C)	P = Resentful; Q = Spiteful
(D)	P = Magnanimous; Q = Vindictive

Q.7	A paper shown in Panel I is folded along the dashed lines (- - -) to construct a cube. The shaded regions shown in Panel I appear on the outer surface of the cube. Referring to cubes shown in Panel II, which one of the options is correct? 
(A)	Only (i) can correspond to the unfolded cube in Panel I.
(B)	Only (ii) can correspond to the unfolded cube in Panel I.
(C)	Both (i) and (ii) can correspond to the unfolded cube in Panel I.
(D)	Neither (i) nor (ii) can correspond to the unfolded cube in Panel I.

Q.8	Consider the cube shown below with its 8 corners labelled a, b, c, d, e, f, g, and h. The figure is representative. All corners are to be colored such that any two corners that are connected by an edge must be of different colors. The minimum number of colors required to achieve this is _____ 
(A)	8
(B)	4
(C)	3
(D)	2

Q.9	Four hills H1, H2, H3, and H4 are present in an area. The following observations are made about them: i. Neither H2 nor H3 is the easternmost hill. ii. Neither H2 nor H3 is the westernmost hill. iii. Neither the easternmost hill nor the westernmost hill is the southernmost hill. iv. Two hills are located to the west of H2. v. The southernmost hill has at least two hills to its east. The southernmost hill is _____.
(A)	H1
(B)	H2
(C)	H3
(D)	H4

Q.10	As shown in the figure, circle C_1 with center O_1 and radius r_1 touches the square $VWXY$ at points P and Q while circle C_2 with center O_2 and radius r_2 touches the square $VWXY$ at points R and S. The two circles touch each other at T. Given $r_1 = 1$ cm and $\overline{VY} = \overline{VW} = 4$ cm, r_2 = _____ cm. 
(A)	$4 - 3\sqrt{2}$
(B)	$1 + 2\sqrt{2}$
(C)	$7 - 4\sqrt{2}$
(D)	$5 + 3\sqrt{2}$

Q.11 – Q.17 Carry ONE mark Each

Q.11	Aman, Beena, Chiranjeevi and Dhiman are four siblings. Each of them is an expert in one of the performing arts, namely, dance, theatre, guitar and percussion, not necessarily in that order. The dancer is taller than the theatre expert. Aman is taller than Chiranjeevi. The percussionist is taller than Beena but shorter than Aman. Beena is shorter than the dancer. The guitarist is not the tallest. Dhiman is shorter than both, guitarist and Chiranjeevi. What is the expertise of Aman?
(A)	Dance
(B)	Theatre
(C)	Guitar
(D)	Percussion

Q.12	Let ΔABC be an isosceles triangle with the base AB of length 8 units. Let CD be a perpendicular of length 4 units drawn from the vertex C onto the base AB and $AC = BC$. Then, which of the following is the set of values of the angles (in degrees) CAB, ABC, BCA respectively?
(A)	45,45,90
(B)	100,40,40
(C)	90,45,45
(D)	40,40,100

Q.13	In the given passage, fill in the blanks with most suitable set of given words: The future must no longer be___ by the past. While, the effects of the past are still with us, each day is a new___. Therefore, one should ___from solely believing in destiny and crave towards charting their own path of success with grit and labour. Positive_____ is imperative.
(A)	Determined, beginning, refrain, anticipation
(B)	Fascinated, one, include, physiology
(C)	Explored, suffering, content, psychiatry
(D)	Marred, life, hinder, labyrinth

Q.14	Indian society is experiencing a boom in pet culture, where people are becoming responsible caretakers of pets rather than merely providing food and shelter. They no longer like to identify themselves as ‘pet-owners’ but rather as ‘pet-parents’. This means that there is an emotional transaction rather than a utilitarian one. Which of the following weaken(s) the argument presented in the given passage?
(A)	Some social media influencers are using their pets only for popularity.
(B)	Food, medicines and clothes for pets are becoming easily available.
(C)	Pet owners are expecting some provision for tax rebate.
(D)	In today’s stressful times, pets provide emotional support.

Q.15	Three statements, S1, S2 and S3 are given, followed with 4 conclusions, C1, C2, C3 and C4. S1: Hostel authorities organised a special lunch on 01-02-26 during 12 noon to 3 pm, for those residents of the Hostel, who paid hostel mess fees on time. S2: Hostel authorities issued a notice that, since elections for Mess Council is held during 4-5 pm of 01-02-26, residents of the Hostel who are contesting the elections need to stay away from the hostel since morning till 5 pm. S3: Hostel residents who were eligible to have special lunch, had it on 01-02-26. C1: Residents who did not have special lunch on 01-02-26, either did not pay hostel mess fees on time or were contesting elections. C2: Residents having special lunch on 01-02-26, were either not contesting elections or had paid hostel mess fees on time. C3: Residents who are contesting elections need not care about paying mess fees. C4: Residents who have paid hostel mess fees on time could join special lunch only if they are not contesting elections. Which of the conclusion(s) is/are incorrect?
(A)	Only one among C1, C2, C3 and C4 is incorrect.
(B)	C1 and C2 are incorrect.
(C)	C2 and C3 are incorrect.
(D)	C3 and C4 are incorrect.

Q.16	Six statements, S1 to S6, are given. S1: All GATE candidates are engineers. S2: Some GATE candidates are CAT candidates. S3: All GRE candidates are GATE candidates. S4: All engineers are GRE candidates. S5: Some CAT candidates are GRE candidates. S6: Some CAT candidates are engineers. Based on S1-S6, following options provide a set of three statements, followed by a fourth statement. Identify the option(s) where the fourth statement can be necessarily inferred from the set of three statements.
(A)	{S1, S2, S3} => S5
(B)	{S4, S1, S2} => S5
(C)	{S6, S1, S3} => S5
(D)	{S4, S3, S1} => S6

Q.17	Four couples M-N, O-P, R-L, S-E meet to have a dinner together on an eight-seater rectangular dining table with four seats each on opposite sides. The men are named as M, O, R, S. Two of the men, O, R, sit on the two corners of one side of the table and M sits beside R. Further, none of the couples occupy seats opposite to each other. However, a person sits adjacent to the seat opposite to his/her spouse. Based on the information, which of the following conclusions can be drawn?
(A)	R sits opposite to N and S sits opposite to P.
(B)	R sits opposite to P and O sits opposite to N.
(C)	S sits opposite to N and O sits opposite to L.
(D)	M sits opposite to L and O sits opposite to E.

Q.18 – Q.26 Carry TWO marks Each

Q.18	Me and my spouse have a big family, comprising 8 females and 6 males. We have two sons and two daughters, of whom the eldest is unmarried. Out of my two grandsons and three granddaughters, only one grandson is a single child. His mother is my younger daughter. Which of my children necessarily has two daughters?
(A)	None of my sons
(B)	One of my sons
(C)	One of my daughters
(D)	Elder daughter

Q.19	Given the first four terms $30, 105, 385, 1001$ in a sequence, which amongst the following is the fifth term of the sequence?
(A)	2341
(B)	2431
(C)	2571
(D)	2751

Q.20	Three players named Arun, Babita and Chandu play a game by tossing an unbiased coin in turn whose rules are as follows: Initially each player has 100 candies. If the tossing of this coin results in a 'head' then the player who tosses receives 10 candies from each of the other two players, whereas, if the toss results in a 'tail' then the player who tosses has to give away 20 candies to each of the other two players. A player with the highest number of candies at the end will be the winner. The game is started by Arun, followed by Babita and finally stopped after Chandu's turn. Given that Arun is the only winner, which of the following hold(s) true?
(A)	Arun has 90 candies more than Chandu
(B)	Both Babita and Chandu have the same number of candies
(C)	Arun has 90 candies more than Babita
(D)	Babita and Chandu together have 120 candies

Q.21	Choose the correct sequence of sentences so that they form a coherent paragraph: P. However, in the context of texts dealing with science or engineering, this condition may not be applicable. Q. One can infer, that there is something called discipline fidelity and within this aspect, content, language, structure and scope of a text may vary. R. In the meaning-making process of a text, it is not always logic that is central. S. Most of the times, it is the expression of the experience that supersedes the structure and argument. Which of the following options is/are correct and giving the most appropriate order and meaning to the sentence?
(A)	RSPQ
(B)	QRSP
(C)	RSQP
(D)	SPRQ

Q.22	Mental health is a global concern, especially among the youth. During the Covid-19 pandemic, when schools and colleges were operating online, students were left with no option but to stay at home leading to negligible social interaction. Several studies indicate that even when offline classes have now resumed post Covid-19 pandemic, these students are finding it difficult to establish social connect leading to mental health issues. To deal with this situation, schools and colleges are trying hard to implement different strategies to combat their student's mental health depending on their unique culture, overall strength, and resources. Which of the following conclusions can be drawn from the above passage?
(A)	India is a young nation.
(B)	Different schools and colleges will have their own way to tackle the issue of mental health.
(C)	A combination of online and offline class is good for students.
(D)	Social connect is important for mental health.

Q.23	On the basis of syntax and grammar, identify the incorrect sentence(s). I. Doctors have found high levels of cerebrospinal fluid in certain cases of cerebral palsy around the world. They also suggested its abnormal impact on speech and muscle movement. II. Doctors have found high levels of cerebrospinal fluid in certain cases of cerebral palsy around the world which suggests the abnormal impact on speech and muscle movement. III. Having found high levels of cerebrospinal fluid in certain cases of cerebral palsy around the world, doctors are suggesting abnormal impact on speech and muscle movement. IV. Having found high levels of cerebrospinal fluid in certain cases of cerebral palsy around the world, doctors suggested its abnormal impact on speech and muscle movement.
(A)	I
(B)	II
(C)	III
(D)	IV

Q.24	In a cricket match amongst 7 friends, named P1 – P7, P1 scored maximum individual runs of 25 and P7 scored minimum individual run of 0. No two friends had the same score. The median and average runs scored were 15 and 12.57, not necessarily in that order. Two players, P2 and P3, who scored more than median but less than maximum, scored less than 40 runs together. One player scored double the sum of non-zero scores of two players. What could be the possible value(s) of the second highest score?
(A)	18
(B)	20
(C)	21
(D)	22

Q.25	A police station has six personnel comprising an inspector (I) and five constables (C_1, C_2, C_3, C_4, C_5). Normally, a 'raid team' of two, three, or four members is formed depending upon the nature of the raid. As per rule, it is mandatory that the inspector is part of raid team. Number of distinct raid teams that can be formed is _____. (*Answer in integer*)
Q.26	A man visits four relatives on a day. He purchases some sweets and gives a part of it to the first relative. Next, he purchases the same number of sweets he is left with after he visited his first relative. He repeats this process while visiting his other relatives. Finally, he gives all the sweets to his fourth relative. It is known that he gives equal number of sweets to all the relatives and is left with no sweets after the fourth relative. Assuming that he initially purchased more than 20 sweets, the minimum number of sweets he gave to each relative is _____. (*Answer in integer*)

Q.27 – Q.44 Carry ONE mark Each

Q.27	_____is the white fatty layer covering the axon that increases the speed of conduction of nerve impulses.
(A)	Cell membrane
(B)	Bulb
(C)	Myelin sheath
(D)	Cleft
Q.28	EEG is a record of the electrical activities of nerve cells. The range of frequencies of EEG is _____Hz.
(A)	1 - 50
(B)	1 - 20
(C)	1 - 10
(D)	1 - 3

Q.29	Which of the following is true about contours in visual form perception?
(A)	Contours are formed due to brightness difference between the object and background.
(B)	Contours never provide shape to the objects.
(C)	Reversible figures do not involve contours.
(D)	Camouflage works when contours do not break.
Q. 30	Which of the following statements is not true?
(A)	We remember the inferences made at the time of encoding and storage.
(B)	Modifications in memory can happen due to constructive processes.
(C)	Visual images are partial representations of the world around us.
(D)	The organizational encoding can never be inherent in the input.

Q. 31	Which of the following is not related to Adler's Individual Psychology?
(A)	Inferiority complex
(B)	Style of life
(C)	Birth-order is not a determinant of personality
(D)	Compensation and overcompensation
Q. 32	Which of the following conceptualization postulates that there are two codes and two systems of storage of information – imagery code and verbal code?
(A)	Functional propositional hypothesis
(B)	Conceptual equivalency hypothesis
(C)	Conceptualization based on mental rotation experiments
(D)	Dual–coding hypothesis

Q. 33	Which of the following is not true regarding Minnesota Multiphasic Personality Inventory (MMPI)?
(A)	Empirical approach was used for test construction.
(B)	It has clinical scales.
(C)	It can be used for the purpose of diagnosis.
(D)	It does not have any validity scales.
Q. 34	Which of the following is not associated with Roger's Self Theory?
(A)	Phenomenal field
(B)	Real self
(C)	Self-efficacy
(D)	Ideal self

Q. 35	Who proposed the idea of ‘decision frames’?
(A)	Bruner
(B)	Tversky and Kahneman
(C)	Johnson-Laird
(D)	Chapman
Q.36	Ethical considerations in research do not include:
(A)	Confidentiality of participants’ responses
(B)	Human dignity of participants
(C)	Participants’ freedom to participate in research
(D)	Social and legal justice for participants

Q.37	Posttraumatic stress disorder (PTSD) is associated with:
(A)	Allostatic load
(B)	Allostatic load after extracting the effect of traumatic memory
(C)	Traumatic memory after extracting the allostatic load
(D)	Injustice faced by the trauma survivors in everyday life years after facing the initial traumatic event
Q.38	Transformational leadership is marked by which one of the following:
(A)	Strict discipline imposed on the followers
(B)	Reverence of the followers for the leader and his/her vision
(C)	Machiavellian approach
(D)	Both democratic and authoritarian leadership styles

Q39	Assertion: Mixed-method studies in psychology may include only qualitative-qualitative mixing. Reason: Mixed-method approaches are based on diverse scientific paradigms that must include positivist (natural science) paradigm.
(A)	Assertion is correct but Reason is incorrect.
(B)	Assertion is incorrect but Reason is correct.
(C)	Both Assertion and Reason are correct.
(D)	Both Assertion and Reason are incorrect.

Q.40	A simple random sampling is one that satisfies: **Condition A**: Each member of the population has an equal chance of being selected. **Condition B**: Selection of every possible combination of desired number of members is equally likely. **Condition C**: Selection of a sample is based on pre-decided criteria.
(A)	Condition A and Condition C
(B)	Condition C and Condition B
(C)	Condition B and Condition A
(D)	Only Condition A
Q.41	Kohlberg argues that moral reasoning passes through different levels as people mature. In one of the levels, he proposes that the individual's reasoning fits what many societies consider to be acceptable moral rules. Which level is this?
(A)	Pre-conventional level
(B)	Conventional level
(C)	Post-conventional level
(D)	Adult level

Q.42	The nature-nurture debate concerns the _____ impact of heredity and environment.
(A)	Relative
(B)	Absolute
(C)	Linear
(D)	Geometric
Q.43	Find the value of Standard Error when: (i) Standard Deviation of the population = 10 (ii) Sample size = 100
(A)	$\sqrt{10}$
(B)	10.01
(C)	1
(D)	$\sqrt{3}$

Q.44	Calculate the value of Standard Deviation using the following scores: Scores: 15, 12, 14, 11, 13
(A)	$\sqrt{2}$
(B)	$\sqrt{3}$
(C)	2
(D)	1.01

Q.45 – Q.65 Carry TWO marks Each

Q.45 Match the following:

P	White matter	i	The folded sheet of neurons in each hemisphere
Q	Spikes	ii	Fiber tracts underneath the cortex
R	Gray matter	iii	Grooves in the cerebral cortex
S	Fissure	iv	Electrical nerve impulses

(A) P-i, Q-ii, R-iii, S-iv

(B) P-ii, Q-iii, R-i, S-iv

(C) P-ii, Q-iv, R-i, S-iii

(D) P-ii, Q-i, R-iv, S-iii

Q.46	Lesion studies show that _____hypothalamus is an excitatory region for hunger, and _____hypothalamus is involved in its cessation.
(A)	Lateral, Ventromedial
(B)	Lateral, Central
(C)	Central, Ventromedial
(D)	Ventromedial, Lateral
Q.47	Assertion: P- The test gives similar results even though different people administer it. Q- Different forms of the test are given, and the same person takes the test at two or more different times. Given P and Q, which of the following is correct?
(A)	The test is valid.
(B)	The test is reliable.
(C)	The test is valid and reliable, both.
(D)	The test is neither valid nor reliable.

Q.48	Assertion: P- The reliability of a test is 0.90. Q- The validity of the same test is 0.60. Given P and Q, which of the following is correct?
(A)	The test is highly reliable and valid.
(B)	The test is highly reliable but not valid.
(C)	The test is not reliable but valid.
(D)	The test is neither reliable nor valid.
Q.49	In Wechsler intelligence scales, people may express IQ in standard deviation units where, X= individual's score, M= mean, and SD= standard deviation. Given this, standard score (SC) can be computed using the formula___.
(A)	$SC = \left(\frac{X - M}{SD}\right)$
(B)	$SC = \left(\frac{M - X}{SD}\right)$
(C)	$SC = \left(\frac{X \times M}{SD}\right)$
(D)	$SC = (X - M) \times SD$

Q.50 Match the following:

P	Standard error of estimate	i	Score range from one through nine.
Q	Statistical significance	ii	Standard error of differences between predicted values and true values of a measure.
R	Stanine score	iii	The probability that the population mean falls within the limits determined from a sample.
S	Standard deviation	iv	Root mean square deviation

(A) P-i, Q-iii, R-ii, S-iv

(B) P-ii, Q-iii, R-i, S-iv

(C) P-ii, Q-iii, R-iv, S-i

(D) P-iii, Q-i, R-ii-, S-iv

Q.51	Which of the following is/are NOT correct about Sternberg and Lubart's (1996) theory of creativity?
(A)	It was developed using the univariate approach.
(B)	It was developed using the multivariate approach.
(C)	Two facets of creativity were intellectual style and personality among others in the theory.
(D)	According to the theory, creativity is a single trait or ability.
Q.52	Which of the following is/are true about endorphin?
(A)	A substance produced by the body
(B)	A synthetic substance
(C)	Involved in perception of pain reduction
(D)	Involved in increasing the feeling of pain

Q.53	Which of the following represent(s) theoretical explanations of Classical Conditioning?
(A)	Spontaneous recovery
(B)	Response substitution
(C)	Stimulus generalization
(D)	Information and expectation
Q.54	Consider the following Null-Hypothesis: "The mean of Treatment Group is not different from that of the Control Group". When this is not accepted, which of the following is/are true?
(A)	The probability of wrong rejection of the Null-Hypothesis is still there, but relatively very low.
(B)	Wrong rejection of the Null-Hypothesis is absolutely not possible.
(C)	Level of significance (α) must be less than or equal to 0.05.
(D)	Level of significance (α) may be greater than or equal to 0.01.

Q.55	In ethnography, “thick description” is associated with:
(A)	Meaning structures of a culture-sharing group
(B)	Clifford Geertz
(C)	Sigmund Freud
(D)	Co-construction of meanings during research interactions
Q.56	According to Central Limit Theorem, for a fixed sample size:
(A)	Sample means may or may not be normally distributed.
(B)	Both Type-I and Type-II errors must be low.
(C)	Relative frequency of sample means that are closer to the population mean is higher.
(D)	Relative frequency of the sample means that are farther from the population mean is lower.

Q.57	Which of the following is/are true about multiple regression analysis?
(A)	It is calculated by analyzing all possible simple bivariate regression co-efficients based on the data set.
(B)	It is calculated by analyzing all possible simple univariate co-efficients based on the data set.
(C)	Effects of other predictor variables are partialled out from a specific predictor variable while calculating its regression co-efficient.
(D)	Both standardized and unstandardized co-efficients can be calculated.
Q.58	Which of the following is/are NOT true about the factorial designs of ANOVA?
(A)	In terms of relationship among the independent variables (IVs) and the dependent variable (DV), it is the same as multiple regression.
(B)	Experimental Groups must include different participants.
(C)	Control and Experimental Groups must include unmatched participants.
(D)	Both Main Effects and Interaction Effects may be calculated.

Q.59	In cognitive behavioral therapy, which of the following type(s) of “faulty thinking” may be identified by the therapist?
(A)	Compulsions
(B)	Arbitrary inference
(C)	Dichotomization
(D)	Maximization and minimization
Q.60	According to Moscovici’s Conversion Theory (1980) which of the following statements is/are true for majority influence?
(A)	Majority influence generates a comparison process (focus on relationship between source and target).
(B)	Conflict is resolved by overt compliance to majority position in public.
(C)	Triggers validation process (closer attention to the issue).
(D)	Target is unlikely to agree with minority in public, for fear of being labelled “deviant”.

Q.61	The probability that a recipient will critically evaluate arguments contained in a message (i.e., elaboration likelihood) is determined by both _____ and _____.
(A)	Processing motivation
(B)	Processing ability
(C)	Processing error
(D)	Processing validity
Q.62	Cultural differences are partly explained by difference in _____ and _____.
(A)	Self-construal
(B)	Group presence
(C)	Ecological conditions
(D)	Shared norms

Q.63	Gordon W. Allport proposed that contact will only be successful in reducing prejudice when it takes place under certain optimal conditions. He suggested that intergroup contact will reduce prejudice if:
(A)	It has acquaintance potential.
(B)	It takes place under the conditions of equal status.
(C)	It involves co-operation towards a common goal.
(D)	It involves simply bringing people from different groups together.
Q.64	Which of the following psychologists is/are associated with the conceptualization of emotions?
(A)	Leon Festinger
(B)	Rom Harre
(C)	Paul Ekman
(D)	E. B. Titchener

Q.65	Which among the following is/are associated with the three psychiatric movements?
(A)	Philip Pinel
(B)	Sigmund Freud
(C)	Community mental health
(D)	Cognitive behaviour therapy