

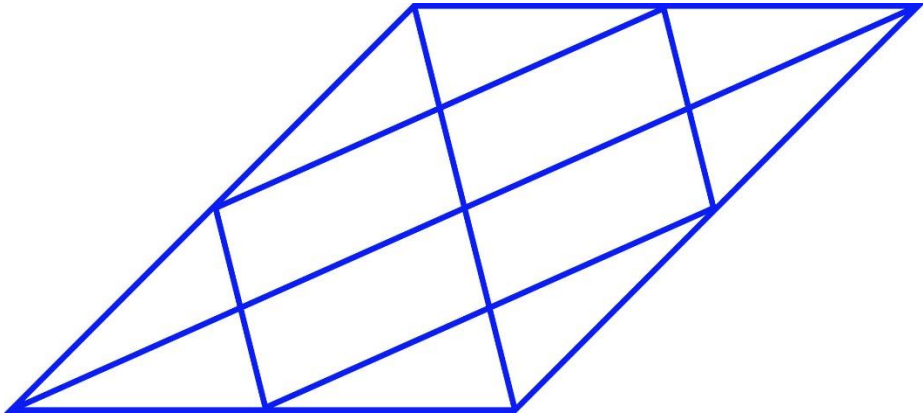
General Aptitude (GA)**Q.1 – Q.5 Carry ONE mark Each**

Q.1	Rafi told Mary, “I am thinking of watching a film this weekend.” The following reports the above statement in indirect speech: Rafi told Mary that he _____ of watching a film that weekend.
(A)	thought
(B)	is thinking
(C)	am thinking
(D)	was thinking

Q.2	Permit : _____ : : Enforce : Relax (By word meaning)
(A)	Allow
(B)	Forbid
(C)	License
(D)	Reinforce

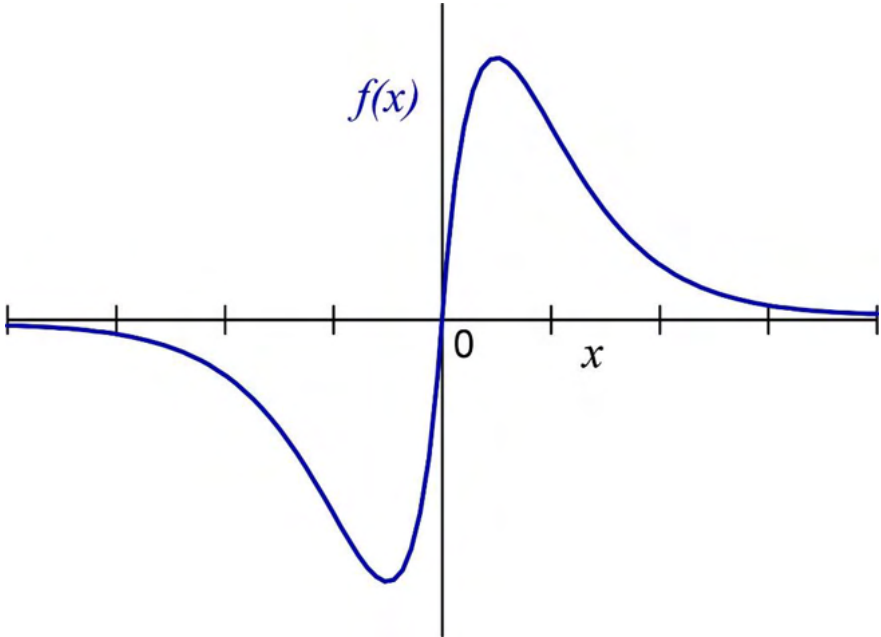
Q.3	Given a fair six-faced dice where the faces are labelled '1', '2', '3', '4', '5', and '6', what is the probability of getting a '1' on the first roll of the dice and a '4' on the second roll?
(A)	$\frac{1}{36}$
(B)	$\frac{1}{6}$
(C)	$\frac{5}{6}$
(D)	$\frac{1}{3}$

Q.4	<p>A recent survey shows that 65% of tobacco users were advised to stop consuming tobacco. The survey also shows that 3 out of 10 tobacco users attempted to stop using tobacco.</p> <p>Based only on the information in the above passage, which one of the following options can be logically inferred with <i>certainty</i>?</p>
(A)	A majority of tobacco users who were advised to stop consuming tobacco made an attempt to do so.
(B)	A majority of tobacco users who were advised to stop consuming tobacco did not attempt to do so.
(C)	Approximately 30% of tobacco users successfully stopped consuming tobacco.
(D)	Approximately 65% of tobacco users successfully stopped consuming tobacco.

Q.5	How many triangles are present in the given figure?
	
(A)	12
(B)	16
(C)	20
(D)	24

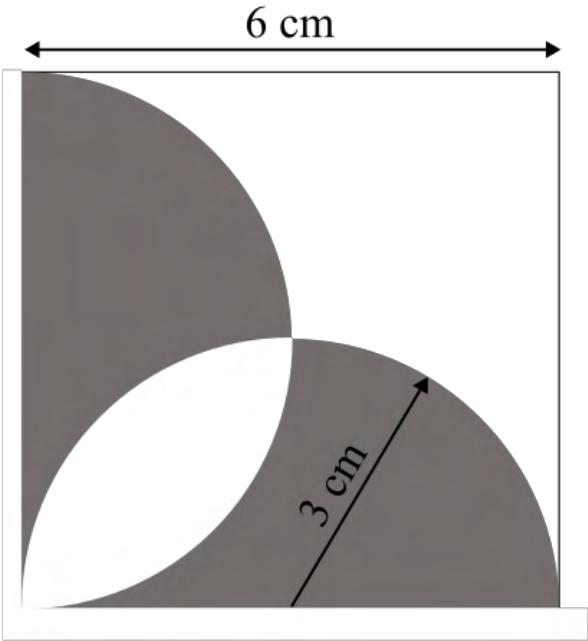
Q.6 – Q.10 Carry TWO marks Each

Q.6	<p>Students of all the departments of a college who have successfully completed the registration process are eligible to vote in the upcoming college elections. However, by the time the due date for registration was over, it was found that suprisingly none of the students from the Department of Human Sciences had completed the registration process.</p> <p>Based only on the information provided above, which one of the following sets of statement(s) can be logically inferred with <i>certainty</i>?</p> <ul style="list-style-type: none"> (i) All those students who would not be eligible to vote in the college elections would certainly belong to the Department of Human Sciences. (ii) None of the students from departments other than Human Sciences failed to complete the registration process within the due time. (iii) All the eligible voters would certainly be students who are not from the Department of Human Sciences.
(A)	(i) and (ii)
(B)	(i) and (iii)
(C)	only (i)
(D)	only (iii)

Q.7	Which one of the following options represents the given graph?
	
(A)	$f(x) = x^2 2^{- x }$
(B)	$f(x) = x 2^{- x }$
(C)	$f(x) = x 2^{-x}$
(D)	$f(x) = x 2^{-x}$

Q.8	<p>Which one of the options does NOT describe the passage below or follow from it?</p> <p>We tend to think of cancer as a ‘modern’ illness because its metaphors are so modern. It is a disease of overproduction, of sudden growth, a growth that is unstoppable, tipped into the abyss of no control. Modern cell biology encourages us to imagine the cell as a molecular machine. Cancer is that machine unable to quench its initial command (to grow) and thus transform into an indestructible, self-propelled automaton.</p> <p>[Adapted from <i>The Emperor of All Maladies</i> by Siddhartha Mukherjee]</p>
(A)	It is a reflection of why cancer seems so modern to most of us.
(B)	It tells us that modern cell biology uses and promotes metaphors of machinery.
(C)	Modern cell biology encourages metaphors of machinery, and cancer is often imagined as a machine.
(D)	Modern cell biology never uses figurative language, such as metaphors, to describe or explain anything.

Q.9	The digit in the unit's place of the product $3^{999} \times 7^{1000}$ is _____.
(A)	7
(B)	1
(C)	3
(D)	9

Q.10	<p>A square with sides of length 6 cm is given. The boundary of the shaded region is defined by two semi-circles whose diameters are the sides of the square, as shown.</p> <p>The area of the shaded region is _____ cm^2.</p>
	
(A)	6π
(B)	18
(C)	20
(D)	9π

Reasoning and Comprehension (XH-B1)

XH-B1: Q.11 – Q.17 Carry ONE mark Each

Q.11	Which word below best describes the idea of being both <i>Spineless</i> and <i>Cowardly</i> ?
(A)	Pusillanimous
(B)	Unctuous
(C)	Obsequious
(D)	Reticent
Q.12	Choose the right preposition to fill up the blank: The whole family got together ____ Diwali
(A)	of
(B)	at
(C)	in
(D)	till

Q.13	<p>Select the correct option to fill in all the blanks to complete the passage:</p> <p>The (i)_____ factor amid this turbulence has been the (ii)_____ of high-octane, action-oriented films such as RRR, K.G.F: Chapter 2 and Pushpa from film industries in the south of the country. Traditionally, films made in the south have done well in their own (iii) _____. But increasingly, their dubbed versions have performed well in the Hindi heartland, with collections (iv)_____ those of their Bollywood counterparts.</p>
(A)	(i) disheartening (ii) failure (iii) channels (iv) matching
(B)	(i) redeeming (ii) outperformance (iii) geographies (iv) eclipsing
(C)	(i) shocking (ii) underperformance (iii) cinemas (iv) below
(D)	(i) humbling (ii) bombing (iii) theatres (iv) falling behind

Q.14	<p>The following passage consists of 6 sentences. The first and sixth sentences of the passage are at their correct positions, while the middle four sentences (represented by 2, 3, 4, and 5) are jumbled up.</p> <p>Choose the correct sequence of the sentences so that they form a coherent paragraph:</p> <ol style="list-style-type: none"> 1. Most obviously, mobility is taken to be a geographical as well as a social phenomenon. 2. Much of the social mobility literature regarded society as a uniform surface and failed to register the geographical intersections of region, city and place, with the social categories of class, gender and ethnicity. 3. The existing sociology of migration is incidentally far too limited in its concerns to be very useful here. 4. Further, I am concerned with the flows of people within, but especially beyond, the territory of each society, and how these flows may relate to many different desires, for work, housing, leisure, religion, family relationships, criminal gain, asylum seeking and so on. 5. Moreover, not only people are mobile but so too are many ‘objects’. 6. I show that sociology’s recent development of a ‘sociology of objects’ needs to be taken further and that the diverse flows of objects across societal borders and their intersections with the multiple flows of people are hugely significant.
(A)	3, 2, 5, 4
(B)	2, 3, 4, 5
(C)	5, 4, 3, 2
(D)	4, 2, 5, 3

Q.15	The population of a country increased by 5% from 2020 to 2021. Then, the population decreased by 5% from 2021 to 2022. By what percentage did the population change from 2020 to 2022?
(A)	-0.25%
(B)	0%
(C)	2.5%
(D)	10.25%
Q.16	The words Thin: Slim: Slender are related in some way. Identify the correct option(s) that reflect(s) the same relationship:
(A)	Fat: Plump: Voluptuous
(B)	Short: Small: Petite
(C)	Tall: Taller: Tallest
(D)	Fair: Dark: Wheatish

Q.17	<p>A pandemic like situation hit the country last year, resulting in loss of human life and economic depression. To improve the condition of its citizens, the government made a series of emergency medical interventions and increased spending to revive the economy. In both these efforts, district administration authorities were actively involved.</p> <p>Which of the following action(s) are plausible?</p>
(A)	In future, the government can make district administration authorities responsible for protecting health of citizens and reviving the economy.
(B)	The government may set up a task force to review the post pandemic situation and ascertain the effectiveness of the measures taken.
(C)	The government may set up a committee to formulate a pandemic management program to minimize losses to life and economy in future.
(D)	The government may take population control measures to minimize pandemic related losses in future.

XH-B1: Q.18 – Q.26 Carry TWO marks Each

Q.18	Six students, Arif, Balwinder, Chintu, David, Emon and Fulmoni appeared in the GATE-XH exam in 2022. Balwinder scores less than Chintu in XH-B1, but more than Arif in XH-C1. David scores more than Balwinder in XH-C1, and more than Chintu in XH-B1. Emon scores less than David, but more than Fulmoni in XH-B1. Fulmoni scores more than David in XH-C1. Arif scores less than Emon, but more than Fulmoni in XH-B1. Who scores highest in XH-B1?
(A)	Fulmoni
(B)	Emon
(C)	David
(D)	Chintu
Q.19	Select the correct relation between E and F.
	$E = \frac{x}{1+x}$ and $F = \frac{-x}{1-x}$ $x > 1$
(A)	$E > F$
(B)	$E < F$
(C)	$E = F$
(D)	$E < -F$

Q.20	<p>A code language is formulated thus:</p> <p>Vowels in the original word are replaced by the next vowel from the list of vowels, A-E-I-O-U (For example, E is replaced by I and U is replaced by A). Consonants in the original word are replaced by previous consonant (For example, T is replaced by S and V is replaced by T).</p> <p>Then how does the word, GOODMORNING appear in the coded language?</p>
(A)	HUUFNUSPOPH
(B)	FIICLIQMEMF
(C)	FUUCLUQMOMF
(D)	HEEDATTACRH

Q.21	<p>The stranger is by nature no "owner of soil" -- soil not only in the physical, but also in the figurative sense of a life-substance, which is fixed, if not in a point in space, at least in an ideal point of the social environment. Although in more intimate relations, he may develop all kinds of charm and significance, as long as he is considered a stranger in the eyes of the other, he is not an "owner of soil." Restriction to intermediary trade, and often (as though sublimated from it) to pure finance, gives him the specific character of mobility. If mobility takes place within a closed group, it embodies that synthesis of nearness and distance which constitutes the formal position of the stranger. For, the fundamentally mobile person comes in contact, at one time or another, with every individual, but is not organically connected, through established ties of kinship, locality, and occupation, with any single one.</p> <p>What assumptions can be made about the stranger from the passage above?</p>
(A)	The stranger can become an owner of soil through developing all kinds of charm in more intimate relations.
(B)	The stranger cannot become an owner of soil either in the physical or psychological sense.
(C)	The stranger can become an owner of soil through establishing ties of kinship and so on.
(D)	The stranger might become an owner of soil in the physical sense but not in the psychological

Q.22	<p>L is the only son of A and S. S has one sibling, B, who is married to L's aunt, K. B is the only son of D. How are L and D related?</p> <p>Select the possible option(s):</p>
(A)	Grandchild and Paternal Grandfather
(B)	Grandchild and Maternal Grandfather
(C)	Grandchild and Paternal Grandmother
(D)	Grandchild and Maternal Grandmother

Q.23	<p>Five segments of a sentence are given below. The first and fifth segments are at their correct positions, while the middle three segments (represented by 2, 3, and 4) are jumbled up. Choose the correct order of the segments so that they form a coherent sentence:</p> <ol style="list-style-type: none"> 1. Consumed multitudes are jostling and shoving inside me 2. and guided only by the memory of a large white bedsheet with a roughly circular hole some seven inches in diameter cut into the center, 3. clutching at the dream of that holey, mutilated square of linen, which is my talisman, my open-sesame, 4. I must commence the business of remaking my life from the point at which it really began, 5. some thirty-two years before anything as obvious, as present, as my clock-ridden, crime-stained birth.
(A)	2 – 3 – 4
(B)	3 – 2 – 4
(C)	4 – 2 – 3
(D)	4 – 3 – 2

Q.24	<p>“I told you the truth,” I say yet again, “Memory’s truth, because memory has its own special kind. It selects, eliminates, alters, exaggerates, minimizes, glorifies, and vilifies also; but in the end it creates its own reality, its heterogeneous but usually coherent versions of events; and no sane human being ever trusts someone else’s version more than his own.”</p> <p>What are the different ways in which ‘truth’ can be understood from the passage?</p>
(A)	Truth is what can be verified by hard empirical evidence.
(B)	Truth is based on what can be perceived by the senses.
(C)	Truth is the product of memory that is fallible, selective and slanted.
(D)	Truth is contingent on the observer and can only be partial.
Q.25	<p>A firm needs both skilled labour and unskilled labour for the production of cloth. The wage of skilled labour is Rs. 40,000 per month, and that of unskilled labour is Rs. 15,000 per month. The total wage bill of the firm for the production of cloth is Rs. 23,75,000 in a month for 100 labour. How many skilled labour are employed by the firm (<i>in Integer</i>)?</p>
Q.26	<p>Select the odd word and write the option number as answer:</p> <p>(1) Lek (2) Zloty (3) Diner (4) Drachma (5) Real</p>

Sociology – C6**XH-C6: Q.27 – Q.44 Carry ONE mark Each**

Q.27	_____ has given the concept of ‘thick description’.
(A)	Emile Durkheim
(B)	Clifford Geertz
(C)	Louis Dumont
(D)	Talcott Parsons
Q.28	Objectivity in social science research as a matter of transpersonal replicability entails _____.
(A)	Merciless elimination of personal biases
(B)	Allocation of costs and benefits to parties be made on normative standards
(C)	Basic honesty in application of professional norms of research
(D)	Reproducibility of findings of research under similar conditions and methods

Q.29	Which of the following is NOT a characteristic of hypothesis?
(A)	A shrewd hunch suggestive of a possible solution to a problem
(B)	A causal relationship between two/more variables
(C)	An empirical conclusion foregone
(D)	A theoretically derived statement that denies refutability
Q.30	_____ theory most appropriately describes a hierarchy of wealthy ‘core’ nations, poor ‘periphery’ nations, and a middle group of ‘semi-periphery’ nations.
(A)	Globalization
(B)	Stages of growth
(C)	World systems
(D)	Limits to growth

Q.31	In Hindu society, marriage of a widow to the husband's brother is referred to as _____.
(A)	Polygyny
(B)	Endogamy
(C)	Levirate
(D)	Polyandry
Q.32	Because of Covid-19 lockdown, a large number of working-class people lost their jobs. Rising price of commodities has also worsened their economic conditions. _____ concept of Karl Marx most appropriately describes this 'increasing impoverishment' of the poor in contemporary times.
(A)	Alienation
(B)	Commodity fetishism
(C)	Pauperization
(D)	Embourgeoisement

Q.33	_____ coined the term, 'ethnocentrism'.
(A)	A.R. Radcliffe-Brown
(B)	Bronislaw Malinowski
(C)	W.G. Sumner
(D)	Harold Garfinkel
Q.34	Supremacy of science over non-sciences is attributed to _____.
(A)	Postcolonialism
(B)	Neo-Kantianism
(C)	Positivism
(D)	Verstehen

Q.35	Communism, universalism, disinterestedness and _____constitute Mertonian ethos of science.
(A)	Organized skepticism
(B)	Organized dogmatism
(C)	Objectivity
(D)	Neutrality
Q.36	_____theory postulates that developing economies would eventually catch up with the developed economies if they follow the social and economic models of Western capitalism.
(A)	Postmodern
(B)	Subaltern
(C)	Marxist
(D)	Modernization

Q.37	_____ approach was NOT propounded by B.S. Cohn as one of the approaches to study Indian civilization.
(A)	Administrative
(B)	Missionary
(C)	Orientalist
(D)	Historiographical
Q.38	If standard deviation is 0.3, then its corresponding variance would be _____.
(A)	0.9
(B)	0.03
(C)	0.09
(D)	0.3

Q.39	Under _____ land tenurial system during the British rule in India, the individual cultivator/peasant had some ownership right over land holding.
(A)	Zamindari
(B)	Ryotwari
(C)	Mahalwari
(D)	Talukdari
Q.40	_____ introduced the concept of ‘reconstructive science’.
(A)	J. Habermas
(B)	A. Giddens
(C)	P. Bourdieu
(D)	M. Foucault

Q.41	_____ theory lies between minor working hypotheses and master conceptual schemes.
(A)	Middle-range
(B)	Social action
(C)	Conflict
(D)	Symbolic interactionist
Q.42	_____ is NOT a characteristic feature of M.N. Srinivas's concept of 'dominant caste'.
(A)	Numerical strength
(B)	Economic power through possession of land
(C)	Political power
(D)	Membership in militant organizations

Q.43	Max Weber's instrumental rationality refers to _____.
(A)	Traditional action
(B)	Emotive action
(C)	Goal-rational action
(D)	Value-rational action
Q.44	The stable pattern of 'modern men' formulated by Alex Inkeles does not include _____.
(A)	Openness to new experiences
(B)	Freedom from traditional authority
(C)	Rejection of activities in civil politics
(D)	Belief in science and technology

XH-C6: Q.45 – Q.65 Carry TWO marks Each

Q.45	_____ refers to the careful consideration of the ways in which researchers' past experiences, points of view, and roles impact these same researchers' interactions with, and interpretations of, the research scene.
(A)	Self-reflexivity
(B)	Social interactionism
(C)	Objectivity
(D)	Participant action research
Q.46	_____ introduced the concept of _____ to refer to situations in which people accept, consent to, internalize, and are complicit in reproducing values and norms that are not in their own best interests.
(A)	K. Marx, alienation
(B)	M. Foucault, governmentality
(C)	A. Gramsci, hegemony
(D)	R. Putnam, social capital

Q.47	_____ is the process by which researchers begin by identifying several participants who fit the study's criteria and then ask these people to suggest a colleague, a friend, or a family member who also fits the study's criteria.
(A)	Random sampling
(B)	Stratified random sampling
(C)	Purposive sampling
(D)	Snowball sampling

Q.48

Match the following sociologists as given in Column P with their views on religion as given in Column Q.

Column P

Column Q

A	Karl Marx	I	Opiate of the people
B	Max Weber	II	Sources of social solidarity
C	Clifford Geertz	III	A source of capitalist outlook
D	Emile Durkheim	IV	A cultural system
		V	A source of modernity

(A)

A-I, B-II, C-V, D-III

(B)

A-I, B-III, C-V, D-II

(C)

A-IV, B-III, C-II, D-V

(D)

A-I, B-III, C-IV, D-II

Q.49	There are four forms of triangulation, namely data triangulation, _____, theory triangulation and _____.
(A)	Field triangulation, methodological triangulation
(B)	Investigator triangulation, methodological triangulation
(C)	Investigator triangulation, interviewee triangulation
(D)	Investigator triangulation, epistemological triangulation
Q.50	_____ is the process by which groups seek to preserve some advantage by monopolizing resources and restricting access to the group.
(A)	Social action
(B)	Social construction
(C)	Social closure
(D)	Social conflict

Q.51	Correlation coefficient lies between _____ and _____, and probability lies between _____ and _____.
(A)	– 1 and 1, 0 and 1
(B)	0 and 1, – 1 and 1
(C)	– 0.5 and 1.5, 0 and 1
(D)	– 1 and 1, – 0.5 and 1.5

Q.52	Match the following concepts as given in Column P with the Sociologists as given in Column Q:			
	Column P		Column Q	
	A	Systematic falsification	I	Thomas Kuhn
	B	Systematic verification	II	Emile Durkheim
	C	Consensus	III	Karl Popper
	D	Social fact	IV	Positivism
(A)	A-III, B-IV, C-I, D-II			
(B)	A-III, B-I, C-IV, D-II			
(C)	A-III, B-II, C-IV, D-I			
(D)	A-IV, B-III, C-II, D-I			

Q.53

Match the following approaches and village study as given in Column P with Sociologists as given in Column Q:

Column P

Column Q

A	Rampura village	I	Sharmila Rege
B	Indology	II	M.N. Srinivas
C	Marxist approach	III	A.R. Desai
D	Feminist perspective	IV	Irawati Karve

(A)

A-III, B-IV, C-I, D-II

(B)

A-II, B-IV, C-III D-I

(C)

A-II, B-IV, C-I, D-III

(D)

A-IV, B-III, C-II, D-I

Q.54	According to the World Commission on Environment and Development, 'sustainable development' refers to _____.
(A)	Development that meets the needs of the present
(B)	Development that meets the needs of the future
(C)	Development that meets the needs of the present without compromising the ability of future generations to meet their own needs
(D)	Development that meets the needs of the past

Q.55	According to David Pocock, the Indian Jajmani system reflects _____.
(A)	Hierarchical collectivity
(B)	Regulated individuality
(C)	Egalitarian collectivity
(D)	Anarchic individuality
Q.56	Which of the following is/are NOT characteristic(s) of class system?
(A)	Class systems are fluid and the boundaries between classes are never clear-cut.
(B)	Class is a form of stratification in which one's social position is given for a lifetime.
(C)	Class is economically based.
(D)	Class divisions are organized around the purity and pollution.

Q.57	Which of the following concept(s) is/are NOT propounded by Emile Durkheim?
(A)	Collective bargaining
(B)	Collective effervescence
(C)	Cult of the individual
(D)	Charismatic authority
Q.58	The example(s) of relations of production is/are _____.
(A)	Labour
(B)	Division of labour
(C)	Property relations
(D)	Capitalism

Q.59	While _____ emerges around a charismatic figure, idea or vision, _____ emerges as a breakaway group from a preexisting body of belief, rituals, or believers.
(A)	Cult, Sect
(B)	Sect, Cult
(C)	Totem, Cult
(D)	Religion, Sect
Q.60	Which of the following statement(s) is/are true for the Forest Rights Act (2006) of India?
(A)	Forest dwellers' right of conserving and protecting community forest resources
(B)	Forest dwellers' right to rehabilitation
(C)	Forest dwellers' right to settlement from forest villages into revenue villages
(D)	Forest dwellers' absolute right over all the natural resources within the given forest area

Q.61	The Ethnographic Survey of India as part of the Census 1901 was conducted to _____.
(A)	Mitigate the racial and cultural issues faced by the British
(B)	Make suitable legislations for Indian subjects
(C)	Protect the primitive beliefs and usages of Indians
(D)	Take executive action (welfare and development)
Q.62	_____ and _____ propounded conflict theory.
(A)	Talcott Parsons
(B)	Ralf Dahrendorf
(C)	Lewis A. Coser
(D)	Jeffrey C. Alexander

Q.63	Which of the following is/are NOT aspect(s) of secularization process?
(A)	Privatization of religion
(B)	Rising level of membership of religious organizations
(C)	Loss of social and political influence of religious organizations
(D)	Belief in magic and supernatural forces
Q.64	Which of the following pair(s) is/are correct? M1: Michel Foucault M2: Pierre Bourdieu M3: John Urry X1: Archaeology of Knowledge X2: Sociological Imagination X3: Practice Theory
(A)	M1 – X1
(B)	M2 – X2
(C)	M3 – X2
(D)	M2 – X3

Q.65	Which of the following statement(s) is/are INCORRECT?
(A)	Hypergamy is a form of marriage where bride's family is of superior status to the groom's family
(B)	Hypogamy is a form of marriage where groom's family is of superior status to the bride's family
(C)	Exogamy refers to marriage outside the caste or sub-caste group
(D)	Polygynandry refers to marriage of several men to several women at the same time

END OF QUESTION PAPER