Gate paper 2023-XH

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Humanities and Social Sciences – Psychology (XH-C5)

General Aptitude (GA)

Q.1 -	· Q.5	Carry	ONE	mark	Each
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۲۰۱	Q.5 Carry Of the	mark Each		
1.	•	e above statement	in indirect sp	m this weekend." The fol- eech: Rafi told Mary that
	(a) thought		(c) am thin	king
	(b) is thinking		(d) was thir	nking
				(GATE XH 2023)
2.	Permit : : :	Enforce: Relax ((Bywordmean	ing)
	(a) Allow	(b) Forbid	(c) License	(d) Reinforce
				(GATE XH 2023)
3.		he probability of g		pelled '1', '2', '3', '4', '5', on the first roll of the dice
	(a) $\frac{1}{36}$	(b) $\frac{1}{6}$	(c) $\frac{5}{6}$	(d) $\frac{1}{3}$
				(GATE XH 2023)
4.	users attempted to	stop using tobacc	co. Based only	ws that 3 out of 10 tobacco y on the information in the s can be logically inferred

(a) A majority of tobacco users who were advised to stop consuming to-

(b) A majority of tobacco users who were advised to stop consuming to-

bacco made an attempt to do so.

bacco did not attempt to do so.

- (c) Approximately 30
- (d) Approximately 65

5. How many triangles are present in the given figure?

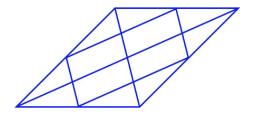


Figure 1

- (a) 12
- (b) 16
- (c) 20
- (d) 24

Q.6 - Q.10 Carry TWO marks Each

- 6. 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 surprisingly none of the students from the Department of Human Sciences had completed the registration process. Based only on the information provided above, which one of the following sets of statement(s) can be logically inferred with certainty?
 - (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)

(GATE XH 2023)

7. Which one of the following options represents the given graph?

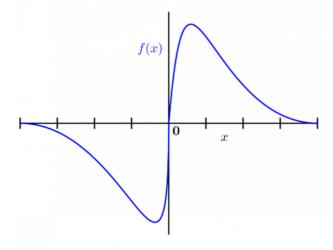


Figure 2

(a)
$$f(x) = x^2 2^{-|x|}$$
 (b) $f(x) = x 2^{-|x|}$ (c) $f(x) = |x| 2^{-x}$ (d) $f(x) = x 2^{-x}$ (GATE XH 2023)

- 8. Which one of the options does NOT describe the passage below or follow from it? 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 (togrow) and thus transform into an indestructible, self-propelled automaton. [Adapted from The Emperor of All Maladies by Siddhartha Mukher jee]
 - (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.

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•	-	-	
(a) 7	(b) 1	(c) 3	(d) 9
			(GATE XH 2023)

9. The digit in the unit's place of the product $3^{999} \times 7^{1000}$ is _____.

10. 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. The area of the shaded region is _____ cm².

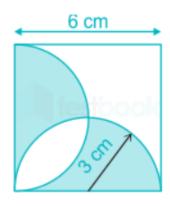


Figure 3

(a) 6π

(b) 18

(c) 20

(d) 9π

Reasoning and Comprehension (XH-B1) XH-B1: Q.11 – Q.17 Carry ONE mark Each

11.	Which word bardly?	pelow best describ	es the idea of being	g both Spineless and Cow-
	(a) Pusillan	imous	(c) Obsequi	ous
	(b) Unctuou	ıs	(d) Reticent	
				(GATE XH 2023)
12.	Choose the r together		o fill up the blanl	k: The whole family got
	(a) of	(b) at	(c) in	(d) till
				(GATE XH 2023)
13.	The (i)octane, action from film indithe south have dubbed version	factor amid this n-oriented films su ustries in the south e done well in the ons have performe	turbulence has be uch as RRR, K.G. n of the country. Their own (iii)	to complete the passage: en the (ii) of high F: Chapter 2 and Pushpa raditionally, films made in But increasingly, their di heartland, with collectrarts.
	(a) (i) dishe	artening (ii) failu	re (iii) channels (iv	matching
	(b) (i) redee	eming (ii) outperfo	ormance (iii) geogr	raphies (iv) eclipsing
	(c) (i) shock	king (ii) underperf	formance (iii) cine	mas (iv) below
	(d) (i) humb	oling (ii) bombing	(iii) theatres (iv) f	alling behind
				(GATE XH 2023)
14.	of the passage (represented b	e are at their correct	ct positions, while are jumbled up. Ch	the middle four sentences toose the correct sequence

- of the sentences so that they form a coherent paragraph:
 - 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

(GATE XH 2023)

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%

(GATE XH 2023)

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

(c) Tall: Taller: Tallest

(b) Short: Small: Petite

(d) Fair: Dark: Wheatish

(GATE XH 2023)

17. 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. Which of the following action(s) are plausible?

- (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

- 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

(GATE XH 2023)

19. Select the correct relation between E and F.

$$E = \frac{x}{1+x} \quad \text{and} \quad F = \frac{-x}{1-x} \quad x > 1$$

- (a) E > F
- (b) E < F (c) E = F
- (d) E < -F

(GATE XH 2023)

- 20. A code language is formulated thus: Vowels in the original word are replaced by the next vowel from the list of vowels, A-E-I-O-U (Forexample, Eisreplacedby I and Uisr Consonants in the original word are replaced by previous consonant (Forexample, TisreplacedbyS Then how does the word, GOODMORNING appear in the coded language?
 - (a) HUUFNUSPOPH
- (c) FUUCLUQMOMF
- (b) FIICLIQMEMF
- (d) HEEDATTACRH

(GATE XH 2023)

21. 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 (asthoughsublimated fromit) 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. What assumptions can be made about the stranger from the passage above?

- (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

(*GATE XH* 2023)

- 22. 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? Select the possible option(s):
 - (a) Grandchild and Paternal Grandfather
 - (b) Grandchild and Maternal Grandfather
 - (c) Grandchild and Paternal Grandmother
 - (d) Grandchild and Maternal Grandmother

- 23. Five segments of a sentence are given below. The first and fifth segments are at their correct positions, while the middle three segments (*representedby*2, 3, *and*4) are jumbled up. Choose the correct order of the segments so that they form a coherent sentence:
 - 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

- 24. "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." What are the different ways in which 'truth' can be understood from the passage?
 - (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.

- 25. 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 (*inInteger*)? (GATE XH 2023)
- 26. Select the odd word and write the option number as answer: (1) Lek (2) Zloty (3) Diner (4) Drachma (5) Real (GATE XH 2023)

Psychology - C5 XH-C5: Q.27 - Q.44 Carry ONE mark Each 27. Blind spot in the retina contains______. (a) only rod cells (c) both rod and cone cells (b) only cone cells (d) neither rod nor cone cells (GATE XH 2023) 28. Taking painkillers eliminates pain, increasing the likelihood that the person will take painkillers again. This is an example of_____. (a) negative punishment (c) negative reinforcement (b) positive reinforcement (d) positive punishment (GATE XH 2023) 29. When learning something new impairs the ability to retrieve information learnt earlier, it is known as _____. (a) retroactive interference (c) tip-of-the-tongue phenomenon (b) proactive interference (d) recency effect (GATE XH 2023) 30. Iconic memory is a type of _____. (a) short term memory (c) semantic memory (b) sensory memory (d) working memory (GATE XH 2023) 31. Which one of the following components of language has to do with the practical or social aspects of communication with others? (b) Morphemes (c) Pragmatics (d) Syntax (a) Phonemes

32.	The Yerkes-Dodson law states that
	(a) performance is affected by the level of arousal
	(b) frustration leads to aggression
	(c) self-concept helps us organize and remember information
	(d) changes in behaviour are a result of experiences that have happened frequently or recently
	(GATE XH 2023)
33.	Transduction of mechanical energy into nerve impulses in the auditory system takes place in reponse to bending of the
	(a) pinna (b) hair cells (c) incus (d) malleus
	(GATE XH 2023)
34.	Which one of the following theories states that emotion occurs as a result of physical arousal and labeling of the arousal based on cues from the surrounding environment?
	(a) Ekman-Friesen theory (c) James-Lange theory
	(b) Schachter-Singer theory (d) Cannon-Bard theory
	(GATE XH 2023)
35.	Which one of the following is TRUE for the Pain-Gate control theory?
	(a) Gate is a physical structure
	(b) Activity of gate cannot be closed by non-pain signals
	(c) Substance P released into spinal cord does not activate other neurons that send messages through spinal gates
	(d) Pain signals must pass through a gate located in the spinal cord
	(GATE XH 2023)
36.	Being treated with warmth and consideration by others only when one behaves as expected, is called as

		openness to experience conditional positive regard	(c) unconditiona(d) zone of proxi	l positive regard imal development
				(GATE XH 2023)
37.	Which model	n of the following is/are NOT to ?	he factor(s) of the	Big Five Personality
	(a) (Conscientiousness	(c) Humility	
	(b) (Optimism	(d) Extraversion	
				(GATE XH 2023)
38.	Which	of the following is/are TRUE	for creative indiv	iduals?
	(a) T	They are not very good at ment	al imagery	
	(b) T	They are not afraid to be different	ent	
	(c) T	They do not value their indeper	ndence	
	(d) T	They are unconventional in the	ir work	
				(GATE XH 2023)
39.	Which in hun	n of the following is/are includenans?	led under behavio	oural genetics studies
	(a) S	Selective breeding studies	(c) Twin studies	
	(b) I	Family studies	(d) Adoption stu	dies
				(GATE XH 2023)
40.	Which RECT	n of the following statements 1??	regarding locus of	control is/are COR-
	(a) I	t can be internal and/or externa	al	
	(b) I	t is associated with self-esteen	1	
	(c) I	nternal locus of control is posi	tively correlated v	vith success
	(d) I	Regret has no association with	locus of control	

- 41. Which of the following is/are TRUE for nonparametric statistics?
 - (a) It is often called distribution free statitstics
 - (b) It is used to analyze interval data
 - (c) It is used to analyze ordinal data
 - (d) It compares groups in terms of means

- 42. According to the review of research on stress and immune system, which of the following statement(s) has/have substantial evidence?
 - (a) There is a negative relationship between stress and functional immune measures
 - (b) There is no measurable impact of stress on functional immune measures
 - (c) Loneliness impacts the relationship between stress and functional immune measures
 - (d) There is a positive relationship between long term stressors and functional immune measures

(GATE XH 2023)

- 43. Which of the following influence(s) gender dysphoria?
 - (a) Prenatal factors
 - (b) Early childhood experiences
 - (c) Socialization
 - (d) Attention Deficit Hyperactivity Disorder

(GATE XH 2023)

44. If the variance of a set of scores is 100, the standard deviation is_____ (*ininteger*). (*GATE XH* 2023)

XH-C5: Q.45-Q.65 Carry TWO marks Each

45. Match the structures of the brain in the first column with their respective functions in the second column of the table given below.

Brain Structures	Functions
P) Cerebellum	i) Orients a person in the environment
Q) Thalamus	ii) Coordinates heart rate, circulation, and
	respiration
R) Tectum	iii) Controls fine motor skills
S) Medulla	iv) Relays and filters information from the
	senses and transmits the information to
	the cerebral cortex

Table 1

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

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

(GATE XH 2023)

46. Which one of the following is established by the replication of research studies?

(a) Validity of the results (c) Interaction effect

(b) Reliability of the results (d) Mediation effect

(GATE XH 2023)

47. Match the theory/law in the first column with the corresponding explanation in the second column of the table given below.

Theory/law	Explanation
P) Weber's law	i) The detection of change in a stimulus is
	relative to the magnitude of the stimulus
Q) Steven's Power law	ii) Sensory magnitude grows in propor-
	tion to the physical intensity of the stimu-
	lus raised to a power
R) Signal detection theory	iii) The magnitude of a sensation is a log-
	arithmic function of the stimulus
S) Fechner's law	iv) The ability to detect a weak stimulus
	varies from moment to moment as per re-
	sponse bias

Table 2

- (a) P-(ii), Q-(iv), R-(i), S-(iii)
- (c) P-(i), Q-(ii), R-(iv), S-(iii)
- (b) P-(iv), Q-(iii), R-(ii), S-(i)
- (d) P-(iii), Q-(ii), R-(iv), S-(i)

(GATE XH 2023)

48. Match the sleep disorders in the first column with the symptoms in the second column of the table given below.

Sleep disorders	Symptoms
P) Enuresis	i) Excessive daytime sleepiness
Q) Hypersomnia	ii) Urinating while asleep in bed
R) Circadian rhythm disorder	iii) A disorder in which the person stops
	breathing for brief periods while asleep
S) Sleep apnea	iv) Disturbances of the sleep-wake cycle

Table 3

- (a) P-(ii), Q-(iv), R-(i), S-(iii)
- (c) P-(ii), Q-(i), R-(iii), S-(iv)
- (b) P-(ii), Q-(i), R-(iv), S-(iii)
- (d) P-(iii), Q-(iv), R-(i), S-(ii)

- 49. _____ explains aging as a process of mutual withdrawal of individual and society, whereas _____ assumes positive correlation between activity and successful aging.
 - (a) Decay theory, Engagement theory
 - (b) Balance theory, Engagement theory
 - (c) Disengagement theory, Activity theory
 - (d) Withdrawal theory, Activity theory

50. Match the biases/effects in the first column with the descriptions in the second column of the table given below.

Biases/effects	Descriptions
P) Barnum Effect	i) Tendency to take credit for one's suc-
	cess but downplaying responsibility for
	one's failure
Q) Reference Group Effect	ii) Tendency to take blame for failure but
	downplay one's role in the success
R) Self-Serving Bias	iii) Tendency to rate oneself with repect
	to one's social and cultural group
S) Self-Effacing Bias	iv) Tendency to believe in description of
	personality that is supposedly descriptive
	of oneself, but could in fact describe al-
	most anyone

Table 4

- $(a) \ \ P\text{-}(i), \ Q\text{-}(iii), \ R\text{-}(ii), \ S\text{-}(iv) \\ \qquad (c) \ \ P\text{-}(iv), \ Q\text{-}(iii), \ R\text{-}(ii), \ S\text{-}(i) \\$
- $(b) \ \ P\text{-}(iv), \ Q\text{-}(iii), \ R\text{-}(i), \ S\text{-}(ii) \\ \qquad (d) \ \ P\text{-}(iv), \ Q\text{-}(i), \ R\text{-}(ii), \ S\text{-}(iii) \\$

(GATE XH 2023)

51. Match the theories in the first column with the central themes in the second column of the table given below.

Theories	Central themes
P) Drive theory	i) Our general level of activation leads to
	optimization
Q) Arousal theory	ii) Behaviour is determined by desirable
	outcomes
R) Expectancy theory	iii) Setting specific and challenging goals
	boosts motivation
S) Goal setting theory	iv) Biological needs push us to action

Table 5

- (a) P-(iv), Q-(i), R-(ii), S-(iii) (c) P-(i), Q-(iv), R-(ii), S-(iii)
- (b) P-(iv), Q-(i), R-(iii), S-(ii) (d) P-(ii), Q-(iii), R-(i), S-(iv)

(GATE XH 2023)

- 52. Which one of the following would resolve the basic dilemma of the social psychologist?
 - (a) Conducting carefully designed experiments with high internal validity
 - (b) By replicating experiments and conducting some new experiments that have internal validity and others that have external validity
 - (c) Conducting research exclusively in the field
 - (d) Conducting applied rather than basic research

(GATE XH 2023)

53. Match the research methods in the first column with their purposes in the second column of the table given below.

Research Methods	Purposes	
P) Narrative method	i) Describing a person, event, and	
	experience in detail	
Q) Ethnography	ii) Collecting data in the form of co-	
	hesive stories	
R) Case Study	iii) Extracting themes from data	
S) Content analysis	iv) Describing cultural characteris-	
	tics in detail	

Table 6

- (a) P-(i), Q-(iii), R-(ii), S-(iv)
- (c) P-(i), Q-(iv), R-(ii), S-(iii)
- (b) P-(ii), Q-(iii), R-(iv), S-(i)
- (d) P-(ii), Q-(iv), R-(i), S-(iii)

(GATE XH 2023)

- 54. Which one of the following statements is TRUE according to Brehm's reactance theory?
 - (a) A mild sign prohibitting spitting would be more effective in preventing spitting than a strong sign
 - (b) A strong sign would be more effective in preventing spitting than a mild one
 - (c) Absence of any sign would be most effective in preventing spitting
 - (d) Signs are irrelevant to spitting behaviour

- 55. According to the overjustification effect, which one of the following consequences would be TRUE for students who freely choose to study psychology, if marks are given for attendance?
 - (a) Increased interest of students in the subject
 - (b) Decreased interest of students in the subject
 - (c) No effect on the interest of students in the subject
 - (d) Increased interest in other social science subjects

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56.	Large rewards and severe punishments are examples of _ fication for behaviour and result in changes in	•
	(a) internal; big	
	(b) external; big	
	(c) internal; small	
	(d) external; small	
		(GATE XH 2023)
57.	Which of the following therapies is/are based on classical	l conditioning?

- (a) Systematic desensitization
- (b) Aversion therapy
- (c) Cognitive behaviour therapy
- (d) Rational emotive behaviour therapy

- 58. Which of the following characterize(s) Wernicke's aphasia?
 - (a) Inability to comprehend spoken words
 - (b) Inability to understand the meaning of words
 - (c) Inability to speak grammatically correct language
 - (d) Inability to write and understand the symbols that represent speech sounds

- 59. Which of the following is/are the component(s) of Theory of Mind?
 - (a) Understanding that people can have false beliefs
 - (b) Distinguishing faces and smells
 - (c) Recognizing that others have mental states
 - (d) Having a vast vocabulary to express one's thoughts

- 60. Which of the following would NOT be effective in minimizing groupthink?
 - (a) The leader being impartial to all ideas no matter what they are
 - (b) The leader reminding the team that everyone will be held responsible for the decision of the group
 - (c) The leader taking all decisions on behalf of the group
 - (d) The leader arriving at a consensus quickly

- 61. Which of the following describe(s) the standard error of the mean?
 - (a) It is the standard deviation of the sampling distribution of the mean
 - (b) It reflects the accuracy with which sample means estimate the population mean
 - (c) It is the difference between mean and standard deviation of a distribution
 - (d) It is the standard deviation of a stratified sample

(*GATE XH* 2023)

- 62. Which of the following describe(s) organizational commitment?
 - (a) A strong desire to remain a member of the organization
 - (b) Willingness to exert high level of effort on behalf of the organization
 - (c) A definite belief in and acceptance of values and goals of the organization
 - (d) High turnover intention of the employees of the organization

- 63. Prejudice is supported by the human tendency to categorize into in-groups and out-groups. Prejudice is supported by which of the following processes?
 - (a) The way we think about others

- (b) The way we assign meaning to others behaviour
- (c) By following intellectual pursuits
- (d) By working towards a common goal

- 64. Which of the following is/are feature(s) of clinical phobia?
 - (a) The fear must be persistent
 - (b) The fear must be a source of significant distress
 - (c) The fear is rational
 - (d) The fear is usually perceived as unwarranted

(*GATE XH* 2023)

65. The value of F calculated from the data given in the table below is ______ (rounded of f to one decimal place).

	Sum of Square (SS)	Degree of freedom (df)	Mean Square (MS)
Between	54	3	18
Within	100	20	5

Table 7