

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY
THIRUVANANTHAPURAM – 695 011, KERALA ,INDIA

Health Sciences
Entrance Exam January 2024

Sl No	Question	Option 1	Option 2	Option 3	Option 4	Correct Option
1	All the following systems are included under the AYUSH mission except	Homoeopathy	Unani	Sowa-rigpa	Reiki	4
2	Select one vector borne disease from the group	Tuberculosis	Japanese encephalitis	Typhoid	Hepatitis B	2
3	Ozone depletion is caused by	Carbon dioxide.	Chlorofluorocarbons	Carbon monoxide	Methane	2
4	Suppose a 95% confidence interval for the proportion of Indians who exercise regularly is 0.20 to 0.32. Which one of the following statements is FALSE?	It is reasonable to say that more than 20% of Indians exercise regularly	It is reasonable to say that more than 32% of Indians exercise regularly.	The hypothesis that 30% of Indians exercise regularly cannot be rejected.	It is reasonable to say that fewer than 35% of Indians exercise regularly	2
5	The Ayushman Bharath scheme envisages upgradation of all Primary Health Centres into	Health and Wellness centres	Health subcentres	Communit health centres	Subdivisional hospitals	1
6	Observer bias is an example to	Random error	Systematic error	Type1 error	Sampling error	2
7	Above which of the following intensity does sound becomes a pollutant	40 db	80 db	100 db	200 db	2
8	Which one of the following concept affect statistical inference when the result is based on a survey using Cluster Random Sampling method?	Pearson's correlation	Spearman's correlation	Intra-class correlation	Biserial correlation.	3
9	Analysis of Variance is a method to compare _____.	Variances	Percentages	Means	Proportions.	3

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10	The point at which supply and demand meets is called	Equilibrium	Breakeven point	Threshold	Boom	1
11	Crude birth rate of a population is expressed as per _____	million.	thousand.	hundred.	generation.	2
12	A point mutation leading to the conversion of A to T in a sequence of DNA is	Transduction	Transillumination	Transition	Transversion	4
13	In testing an association between an exposure variable and outcome variable, causality is strongly suggested by all the following, except:	Evidence from cross sectional studies	A large odds ratio	Consistent association in many studies	Presence of a dose response relationship	1
14	In an area with difficult terrain or substantial tribal population, one Primary Health Centre is expected to serve _____ population	10000	20000	30000	40000	2
15	Complete the sentence with the choice of answer: The criteria internationally accepted to report qualitative research is called the:	QUALITAN	COREX	COREQ	NViVO	3
16	Demand is inversely related to	Tastes and preferences	Income	Price	Substitutes	3
17	_____ is the leading cause of death from a single infectious agent in the world during the past five years.	HIV virus	Mycobacterium tuberculosis	Plasmodium falciparum	SARS-CoV-2	2
18	If variables X and Y are independent, Variance of (X-Y), ie. Var (X-Y) is _____.	Zero	Var(X)-Var(Y)	Var(X)+Var(Y)	Var(Y-X)	3

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19	An epidemic will die out when the reproductive number is:	1	>1	>1.1	< 1	4
20	The process of taking informed consent for participating in research is a reflection of which of these principles?	Autonomy	Justice	Beneficence	Non-malficience	1
21	Which one of the following human serum immunoglobulins takes part in classical complement fixation pathway?	IgA	IgG	IgE	IgD	2
22	Identify the method of data collection which is used in qualitative research.	Photovoice	Questionnaire	Likert scale	Ratio scale	1
23	A confidence interval indicates a significant Odds Ratio when	It includes 0	It does not include1	It includes 1	It does not include 0	2
24	Which of the following is NOT a social determinant of health?	Income	Cultural norms	Social status	Age	4
25	The measure of association that is also called the cross-product ratio is	Risk ratio	Hazard ratio	Prevalence ratio	Odds ratio	4
26	A rate of 24/100 person-years may also be expressed as ____ /100 person months.	1.2	2	2.4	3.6	2
27	What is the common name used for National Income?	Per capita income	Income from the Exports	GDP	Household Income	3
28	In Transactional Analysis, 'transaction' means	A person affected by a financial transaction	Integrating Adult child ego states	There is an exchange of money	Social interactions	4

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29	Which of the following is not based on a General Linear Model?	Student's t-test	ANOVA	ANCOVA	Kaplan-Meier curve	4
30	Health expenditure by a government agency is considered	Private expenditure on health	Public expenditure on health	For-profit expenditure on health	Bilateral expenditure on health	2
31	A value of 1 in Gini index represents	Low inequality.	Maximum inequality.	10% inequality.	1% inequality.	2
32	The following statements about the 'evidence pyramid' are true, EXCEPT	Meta-analysis is considered the highest possible level of evidence	Results from a meta-analysis are usually represented as a forest plot	Observational designs such as cohort and case-control are not considered evidence	We can do meta-analysis of cohort studies and case-control studies	3
33	Which of the following is not a property of a binomial experiment?	The probabilities of the two outcomes can change from one trial to the next	The experiment consists of a sequence of n identical trials	Each outcome can be referred to as a success or a failure	The trials are independent	1
34	The main route of transmission of Zika virus is	Sexual intercourse	Airborne transmission	Droplet transmission	Mosquito bite	4
35	What would you call a research method that used indepth interviews in the community to identify the ways of categorizing illnesses and then subsequently used a survey to understand the extent to which that illness	Qualitative approach	Quantitative approach	Qual-Quan approach	Mixed methods approach	4

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	categories prevail in the community?					
36	The incubation period of SARS-CoV-2 virus is	1 week	2 weeks	3 weeks	4 weeks	1
37	SARS-CoV-2 virus is a	DNA virus	RNA virus	Non-encapsulated virus	Double stranded virus	2
38	Which one of the following best defines an oncogene?	An oncogene never codes for a cell cycle protein, which promotes cell proliferation.	Oncogenes are always involved in inherited forms of cancer.	An oncogene codes for a protein that prevents a cell from undergoing apoptosis.	An oncogene is a dominantly expressed mutated gene that renders a cell advantageous towards survival.	4
39	Effect-modification refers to the:	Selection of study groups that arise from different populations.	Situation when interviewers gather information differently from cases and controls.	Situation when the magnitude of the association between the exposure and the disease varies by a third factor.	Design in which persons are randomly allocated to receive a therapy and a placebo.	3
40	Absolute zero exists in	Ordinal scale	Numeric scale	Nominal scale	Ratio scale	4
41	When one does research on people who are like the researcher or among ones own culture, it may be biased due to:	Insider's bias	Narrator's bias	Cultural bias	Outsider's bias	1

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42	Complete the sentence with the choice of answer: Analysis of data using grounded theory uses a coding that is:	Inductive in nature	Deductive in nature	Empirical in nature	Positivist in nature	1
43	Denominator used to calculate Infant Mortality Rate is _____	mid-year population	number of women	number of live births	number of deaths	3
44	Inter-quartile range is a measure of _____.	central tendency.	dispersion.	correlation.	average.	2
45	The first population based cancer registry established in India was	Mumbai	Delhi	Bangalore	Chennai	1
46	Which of the following is not a major contributor to the greenhouse effect?	Carbon dioxide	Carbon monoxide	Chlorofluorocarbons	Methane gas	2
47	Complete the sentence with the choice of answer: The unit of analysis for focus Group Discussions is:	the focus group.	each individual participant.	the site of the focus group.	the number of participants in the focus group.	1
48	P Value is an estimate of _____.	Type I error	Type II error	Power of a test	Standard error	1
49	Which of the following Options can be Total Fertility Rate of a population?	25.8	258	0.258	2.58	4
50	The market that has only one player is called	Oligopoly	Monopolistic	Duopoly	Monopoly	4
51	The alternate form of a gene is known as	Allele	Dominant character	Recessive character	Alternate type	1
52	This attribute of a researcher is a part of a process of analysis in qualitative research.	Conductivity	Reflexivity	Numerical	Empathetic	2

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53	Which one of the following is not a non-probability sampling ?	Snoball sampling	Proportional sampling	Quota sampling	Stratified random sampling	4
54	A DALY is a measure of losses due to which of the following	Mortality, life expectancy	Illness, morbidity	Injury, rehabilitation	Death, disability	4
55	Liner regression models are appropriate when the dependent variable is _____.	binary.	ordinal.	nominal.	continuous.	4
56	Excessive use of phosphate and nitrate fertilizers leads to contamination of water an leads to	Increased algal growth	Eutrophication	Reduced algal growth	Increased salinity	4
57	The design that is most suited to study rare outcomes is	Cross-sectional	Cohort	Case control	Ecological	3
58	Complete the sentence with the choice for answer: The analysis in qualitative research follows a tradition that is:	Interpretivist	Positivist	Empirical	Critical	1
59	GRAS substances are those added to food that are	Generally responsible for acute sickness	Geographically researched and accepted substances	Generic ally recognized and accepted substances	Generally recognized as safe	4
60	What is a premature death?	a death below 70 years of age	a death below 56 years of age	Any avoidable death	Death among children	1
61	One-tenth of one bag of potatoes weighs the same as one-seventh of one bag of small pebbles. What is the ratio of the weight of 2 bags of potatoes to 3 bags of pebbles?	7:15	20:21	21:20	3:2	2

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62	A and B started a business by investing Rs. 36,000 and Rs. 63,000. Find the share of each, out of the annual profit of Rs. 5500.	Rs. 2000, Rs. 3500	Rs. 2500, Rs. 3500	Rs. 3500, Rs. 2500	None of these	1
63	A sum of Rs. 13,950 should be divided among three persons A, B and C. B must get the double of A's share and C must get Rs. 50 less than the double of B's share. The share of A will be _____.	Rs. 1950	Rs. 1981.25	Rs. 2000	Rs. 2007.75	3
64	GENEALOGY: ANCESTRY, ENTOMOLOGY: _____	WORDS	INSECTS	FOSSILS	INSCRIPTIONS	2
65	If 'a' is the smallest prime number greater than 39 and 'b' is the largest prime number less than 10, then ab = _____.	299	287	229	261	2
66	Find the odd number from the series 8, 64, 99, 216, 343, 729, 1728	64	216	729	99	4
67	A person has the capability of thinking 100 lines of code in five minutes and can type 100 lines of code in 10 minutes. He takes a break for five minutes after every ten minutes. How many lines of codes will he complete typing after an hour?	100	250	350	600	2

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68	Which number comes next in this sequence? 1, 1.5, 2.5, 4, ___?	9	8	7	6	4
69	If 3 less than twice a certain number is equal to 2 more than 3 times the number, then 5 less than 5 times the number is _____.	-30	-20	-5	0	1
70	Complete the equation by correctly identifying the incomplete number of the calculation from the list of options given below.- Equation: $(4.25 + 2.75)^2 + \underline{\hspace{1cm}} = 53 - (9 \times 8)$	2	4	6	8	2
71	A pescatarian is someone who eats _____.	Egg	Chicken	Fish	None of the above	3
72	Chandrayaan-3 was launched from _____.	Satish Dhawan Space Centre	VSSC Thumba	Abdul Kalam Island Odisha	Kennedy Space Centre Cape Canaveral	1
73	In doing action research what is the usual sequence of steps?	Reflect, Observe, Plan, Act	Plan, Act, Observe, Reflect	Plan, Reflect, Observe, Act	Act, Observe, Plan, Reflect	2
74	When you reverse the age of the father you will get the age of the son. One year ago the age of the father was twice that of son's age. What are the current ages of son and father?	37 and 73	24 and 42	13 and 31	15 and 51	1

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75	The perimeters of a circle, a square and an equilateral triangle are equal. Which one of the following statements is true?	The circle has the largest area.	The square has the largest area.	The equilateral triangle has the largest area.	All the three shapes have the same area.	1
76	The radius as well as the height of a circular cone increases by 10%. The percentage increase in its volume is _____.	17.1	21.0	33.1	72.8	3
77	If the average of 5 numbers is 36 and the average of four of those numbers is 34, then what is the value of the fifth number?	2	34	35	44	4
78	A, B and C are intelligent; A, D and E are laborious; D, C and E are honest; and A, B and E are ambitious. Who is neither laborious nor honest?	A and D	B	E	C	2
79	Although it does contain some pioneering ideas, one would hardly characterize the work as _____.	Orthodox	Conventional	Original	Trifling	3
80	A car got 33 Km per liter using petrol that cost Rs. 89.5 per liter. Approximately what was the cost, in Rupees of the petrol used in driving the car 350 Km?	1000	880	950	1100	3
81	A certain jar contains 60 jelly beans — 22 white, 18 green, 11 yellow, 5 red, and 4 purple. If a	0.09	0.15	0.85	0.91	3

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	jelly bean is to be chosen at random, what is the probability that the jelly bean will be neither red nor purple?					
82	Which pair of words among the following are odd ones Crime and Punishment, Exercise and Health, Judgement and Advocacy, Hardwork and Success, Slowth and Failure?	Slowth and Failure	Hardwork and Success	Judgement and Advocacy	Exercise and Health	3
83	What is the greatest value of x for which $(3x-2)(x+1) = 0$?	-1	$\frac{2}{3}$	$-\frac{2}{3}$	1	2
84	Which of the following numbers is farthest from the number 1 on the number line?	0	5	-10	10	3
85	Select the lettered pair that best expresses a relationship similar to that expressed in the original pair Antidote : Poison	Cure : Recovery	Tonic : Lethargy	Narcotic : Sleep	Stimulant : Relapse	2
86	Choose word or phrase that is most nearly opposite in meaning to the word ENERVATE	Recuperate	Resurrect	Strengthen	Gather	3
87	The sum of three numbers is 98. If the ratio of the first to second is 2:3 and that of the second to the third is 5:8, then the second number is?	20	30	40	58	2

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88	Distance between two stations, X and Y is 778 km. A train covers the journey from X to Y at 84 Km per hour and returns back to X with a uniform speed of 56 Km per hour. Find the average speed of the train during the whole journey?	67 Km/hr	67.2 Km/hr	69 Km/hr	69.2 Km/hr	2
89	Due to an increase in taxes on electronic devices, the price of a cooler has increased to Rs. 8450, which is 30% increase of the original price. What was the original price of the cooler prior to the increase?	5154.5	5915	6500	6760	3
90	If one-third of one-fourth of a number is 15, then three-tenth of that number is	25	35	45	54	4
91	Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is _____.	15	13	11	9	1
92	The difference between a two-digit number and the number obtained by interchanging the positions of its digits is 36. What is the difference between the two digits of that number?	3	4	9	Cannot be determined	2
93	Which is the odd word?	Inch	Yard	Ounce	Centimeter	3

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94	Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is ____m.	173	200	273	300	3
95	The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is ____m.	2.3	4.6	7.8	9.2	4
96	From a point P on a level ground, the angle of elevation of the top tower is 30° . If the tower is 100 m high, the distance of point P from the foot of the tower is ____m.	149	156	173	200	3
97	Choose the word which best expresses the meaning of the word CORPULENT	Lean	Emaciated	Obese	Gaunt	3
98	In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is ____.	75 cu. m	750 cu. m	7500 cu. m	75000 cu. m	2
99	A hall is 15 m long and 12 m broad. If the sum of the areas of the floor and the ceiling is equal to the sum of the areas of four walls, the volume of the hall is ____m ³	720	900	1200	1800	3

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100	A and B invest in a business in the ratio 3: 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is Rs._____.	1425	1500	1537.5	1576	2
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