ENTRANCE TEST FOR Ph.D. PROGRAMME, 2023

PHYSICAL EDUCATION

PRISICAL EDUCATION	
Time: Three Hours	Maximum: 100 Marks
Part A	
Answer all questions.	
Each question carries 1 mark.	
1. Another name for a Likert Scale is a (n):	
(a) Interview protocol. (b) Event sampling.	
(c) Summated rating scale. (d) Ranking.	
2. Which of the following is not one of the six major methods of deducational researchers?	lata collection that are used by
(a) Observation. (b) Interviews.	
(c) Questionnaires. (d) Checklists.	
3. A census taker often collects data through which of the following	?
(a) Standardized tests. (b) Interviews.	
(c) Secondary data. (d) Observations.	
4. The researcher has secretly placed him or herself (as a member) in This researcher may be which of the following?	the group that is being studied
(a) A complete participant.	
(b) An observer-as-participant.	
(c) A participant-as-observer.	
(d) None of the above.	
5. Which of the following is not a major method of data collection?	
(a) Questionnaires. (b) Focus groups.	

(d) Secondary data.

(c) Co relational method.

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6.	Which things		tions to	emerge from the immediate context or course o
	(a)	Interview guide approach.		
	(b)	Informal conversational intervi	ew.	
	(c)	Closed quantitative interview.		
÷.	(d)	Standardized open-ended interv	view.	
7.	Sampli	ng in qualitative research is simi	lar to w	hich type of sampling in quantitative research?
	(a)	Simple random sampling.	(b)	Systematic sampling.
	(c)	Quota sampling.	(d)	Purposive sampling.
8.	Which	of the following would generally i	require	the largest sample size?
	(a)	Cluster sampling.	(b)	Simple random sampling.
	(c)	Systematic sampling.	(d)	Proportional stratified sampling.
9.	People called -	who are available, volunteer, or	can be e	easily recruited are used in the sampling method
	(a)	Simple random sampling.	(b)	Cluster sampling.
	(c)	Systematic sampling.	(d)	Convenience sampling.
10.	Which	of the following would usually red	quire th	e smallest sample size because of its efficiency?
	(a)	One stage cluster sampling.		
	(b)	Simple random sampling.		
	(c)	Two stage cluster sampling.		
	(d)	Quota sampling.		
11.	Which	research paradigm is based on th	e pragn	natic view of reality?
	(a)	Quantitative research.	(b)	Qualitative research.
	(c)	Mixed research.	(d)	None of the above.
12.	Which	research paradigm is least conce	rned abo	out generalizing its findings?
	(a)	Quantitative research.	(b)	Qualitative research.
	(c)	Mixed research.	(d)	None of the above.

13.	wnich	of the following best describes quar	ntitati	we research?
	(a)	The collection of nonnumeric data	a.	
•	(b)	An attempt to confirm the research	her's	hypotheses.
	(c)	Research that is exploratory.		
	(d)	Research that attempts to genera	te a n	ew theory.
14.	A cond	ition or characteristic that can take	on di	fferent values or categories is called
	(a)	A constant.	(b)	A variable.
	(c)	A cause-and-effect relationship.	(d)	A descriptive relationship.
15.	Which	Vitamin plays a prominent role in	blood	clotting?
	(a)	Vitamin A.	(b)	Vitamin D.
	(c)	Vitamin E.	(d)	Vitamin K.
16.	The sta	ate of being first creates a strong al	most 1	unusable impression. This is:
	(a)	Law of primacy.	(b)	Law of intensity.
	(c)	Law of recency.	(d)	Law of effect.
17.	That tl	he things most recently learned are	best	remembered refers to :
	(a)	Law of intensity.	(b)	Law of effect.
	(c)	Law of primacy.	(d)	Law of recency.
18.	Which	is the lowest level of learning?	: .	
	(a)	Rate learning.	(b)	Understanding.
	(c)	Application.	(d)	Correlation.
19.	Emotio		ınd bı	uilt ability are attributes of which personality
	(a)	Extroversion.	(b)	Agreeableness.
	(c)	Bourgeoisies.	(d)	Openness.
20.	Which	of the following is not an attribute	of ag	reeableness personality dimension?
	(a)	Altruism.	(b)	Complexity.
	(c)	Trust.	(d)	Modesty.

21.	The leader who allows complete freedom is activities is:	n dec	ision making and do not participate in the group		
	(a) Autocratic.	(b)	Democratic.		
	(c) Lassezfair.	(d)	None of the above.		
22.	Stress is:				
	(a) Advantageous to the player.				
	(b) Detrimental to his abilities.				
	(c) Both advantageous and detriment	al as	per the situation.		
	(d) None of the above.				
23.	Maslow places needs at the bottom of hiera	archy			
	(a) Esteem.	(b)	Belongingness.		
	(c) Safety.	(d)	Physiological.		
24.	Which law of learning is also called the lay	w of u	se and disuse ?		
	(a) Law of exercise.	(b)	Law of readiness.		
· · ·	(c) Law of effect.	(d)	Law of intimacy.		
25.	The law of effect is also known as:				
	(a) Law of use and disuse.	(b)	Law of satisfaction.		
	(c) Law of recency.	(d)	Law of frequency.		
26.	Which of the following are true?				
	i. Mature red blood cells do not contain a nucleus.				
	ii. Red blood cells contain haemoglobin, which binds to oxygen.				
	iii. Red blood cells transport oxygen to be cells.	ody ce	ells and transport some carbon dioxide from bod		
	iv. Hemocytoblasts give rise to all types of	f bloo	d cells.		
	(a) i, ii, and iii.	(b)	ii and iii only.		
	(c) ii, iii, and iv.	(d)	i, ii, iii, and iv.		

27.	Where	are red blood cells produced?
	(a)	Lymphatic vessels. (b) Heart chambers.
	(c)	Red bone marrow (d) Yellow bone marrow.
28.	All of t	he following types are white blood cells, except:
٠. ٠	(a)	Neutrophils. (b) Lymphocytes.
	(c)	T cells. (d) Platelets.
29.	Neutro	phils perform which of the following functions?
	(a)	Produce antibodies. (b) Phagocytize bacteria.
	(c)	Destroy infected body cells. (d) Deliver carbon dioxide to the lungs.
30.	Which	of the following statements about neurotransmitters is false?
-	(a)	Excitatory neurotransmitters may generate an action potential in the neuron they reach.
	(b)	At a neuromuscular junction, acetylcholine has inhibitory effects.
* .	(c)	Dopamine helps regulate muscle tone.
	(d)	Norepinephrine is found in both the central and peripheral nervous systems.
31.	A signa	al moves through the parts of a single neuron in what order?
	(a)	Dendrites, cell body, axon, axon terminals.
	(b)	Axon terminals, axon, cell body, dendrites.
	(c)	Cell body, dendrites, axon, axon terminals.
	(d)	Axon, dendrites, axon terminals, cell body.
32.	A myel	inated axon transmits a signal ————————————————————————————————————
	(a)	More slowly than. (b) More quickly than.
	(c)	At the same rate as. (d) More accurately than.
33.	When a	a neuron is not transmitting a signal, which of the following is true?
	(a)	The cell membrane is depolarized.
	(b)	The cell contains an action potential.
	(c)	The cell cannot be stimulated by neurotransmitters.
	(d)	
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Which	h type of cells phagocytize debris in the central nervous	s system?
(a)	Ependymal cells. (b) Astrocytes.	
(c)	e) Microglia. (d) Oligodendr	ocytes.
Which	h one of these statistics is unaffected by outliers?	
(a)) Mean. (b) Inter quart	ile range.
(c)	e) Standard deviation. (d) Range.	
A list o	t of 5 pulse rates is : 70, 64, 80, 74, 92. What is the med	ian for this list?
(a)	(b) 76.	
(c)	e) 77. (d) 80.	
Which	ch of the following would be most likely to produce selec	tion bias in a survey?
(a)	Using questions with biased wording.	
(b)	Only receiving responses from half of the people in	the sample.
(c)	c) Conducting interviews by telephone instead of in po	erson.
· (d)		
Which	ch one of the following variables is not categorical?	
(a)	a) Age of a person.	
(b)	Gender of a person: male or female.	
(c)	c) Choice on a test item: true or false.	
(d)	l) Marital status of a person (single, married, divorced	l, other).
Which	ch one of these statistics is unaffected by outliers?	
(a)	a) Mean. (b) Interquart	le range.
(c)	e) Standard deviation. (d) Range.	
Which	ch of the following would indicate that a dataset is <u>not</u> l	pell-shaped?
(a)	1) The range is equal to 5 standard deviations.	
(b)	The range is larger than the inter quartile range.	
(c)	c) The mean is much smaller than the median.	
(d)	l) There are no outliers.	
	Whice (a (a (c Whice (a (a (c A liss (a (c Whice (a (c (c Whice (a (c	(c) Microglia. (d) Oligodendro Which one of these statistics is unaffected by outliers? (a) Mean. (b) Inter quart (c) Standard deviation. (d) Range. A list of 5 pulse rates is: 70, 64, 80, 74, 92. What is the medic (a) 74. (b) 76. (c) 77. (d) 80. Which of the following would be most likely to produce select (a) Using questions with biased wording. (b) Only receiving responses from half of the people in a condition of the following would be a selected of in people in the condition of the following variables is not categorical? (d) Using a random sample of students at a university who think the legal drinking age should be lowered. Which one of the following variables is not categorical? (a) Age of a person. (b) Gender of a person: male or female. (c) Choice on a test item: true or false. (d) Marital status of a person (single, married, divorced which one of these statistics is unaffected by outliers? (a) Mean. (b) Interquartice. (b) Interquartice. (c) Standard deviation. (d) Range. Which of the following would indicate that a dataset is not be conditionally and the conditions. (b) The range is equal to 5 standard deviations. (c) The mean is much smaller than the median.

Questions 42 and 43: A newspaper article reported that "Children who routinely compete in vigorous after-school sports on smoggy days are three times more likely to get asthma than their non-athletic peers.

- 41. Of the following, which is the most important additional information that would be useful before making a decision about participation in school sports?
 - (a) Where was the study conducted?
 - (b) How many students in the study participated in after-school sports?
 - (c) What is the baseline risk for getting asthma?
 - (d) Who funded the study?
- 42. The newspaper also reported that "The number of children in the study who contracted asthma was relatively small, 265 of 3,535." Which of the following is represented by 265/3535 = .075?
 - (a) The overall risk of getting asthma for the children in this study.
 - (b) The baseline risk of getting asthma for the "non-athletic peers" in the study.
 - (c) The risk of getting asthma for children in the study who participated in sports.
 - (d) The relative risk of getting asthma for children who routinely participate in vigorous after-school sports on smoggy days and their non-athletic peers.
- 43. Which of the following would be most likely to produce selection bias in a survey?
 - (a) Using questions with biased wording.
 - (b) Only receiving responses from half of the people in the sample.
 - (c) Conducting interviews by telephone instead of in person.
 - (d) Using a random sample of students at a university to estimate the proportion of people who think the legal drinking age should be lowered.
- 44. Which one of the following variables is not categorical?
 - (a) Age of a person.
 - (b) Gender of a person: male or female.
 - (c) Choice on a test item: true or false.
 - (d) Marital status of a person (single, married, divorced, other)

45 .	To the	different body parts	oxygen is carried	l by		
	(a)	Platelets.	(b)	Haemoglobin.	
	(c)	WBC.	(d)	Serum.	
46.	The po	int where the entire	mass or weight o	f th	e body may be considered t	o be concentrated is:
	(a)	Centre of mass.	(b)	Centre of gravity.	
	(c)	Torque.	((d)	Lever.	
47 .	Which	muscle is called boxe	ers muscle ?			
	(a)	Deltoid.	((b)	Biceps.	
	(c)	Serratus anterior.	((d)	Pectoralis major.	
48.	Which	of the following is a	n example for bia	xial	joint?	
	(a)	Hinge.	· · · · · · · · · · · · · · · · · · ·	(b)	Pivot.	
	(c)	Both (a) and (b).	((d)	None of the above.	
49.	Osgood	ls Semantic Differen	tial scale is used	to n	neasure ————,	
	(a)	Anxiety.	((b)	Stress.	
	(c)	Aggression.		(d)	Attitude.	
50.	Sprinti	ng speed is best dev	eloped through –			
	(a)	Interval training.	((b)	Weight training.	
	(c)	Meditation.		(d)	Circuit training.	
	•			٠		$(50 \times 1 = 50 \text{ marks})$
			Pa	rt E		
	•		Answer any	ten	questions.	
-			Fach question			

- 51. Delimitation.
- 52. Questionnaire.
- 53. Need of Research Design.

- 54. Interpretation.
- 55. Limitations of test of significance.
- 56. Carbohydrate loading.
- 57. Insulin.
- 58. Perception.
- 59. Null Hypothesis.
- 60. Anova.
- 61. Percentile.
- 62. Floating rib
- 63. Test for flexibility.
- 64. Control group.

 $(10 \times 5 = 50 \text{ marks})$