

M.A./M.Sc. Part - I Annual Examination - 2022

Subject: Applied Psychology (New Course)
Paper: I (Schools & Perspective in Psychology)

Roll No.

Time: 3 Hrs. Marks: 100

NOTE: Attempt any FIVE questions. All questions carry equal marks.

- 1. Make a detailed comparison between Structuralism and Functionalism? (20)
- 2. Write basic postulates of humanistic psychology? (20)
- 3. Discus Gestalt Principles in detail? (20)
- 4. What is the difference between the Social Cognitive Perspective and the Behavioral Perspective? (20)
- 5. Discus the Significance of Islamic perspective in the light if Muslim scholar (20)
- 6. Discus the role of Heredity in biological perspective (20)
- 7. Discus the major difference between Classical Psycho-analysis and Neo-Freudians School of thought (20)
- 8. Discus and compare the social learning theory given by Bandura and Mahony and Mischel (20)



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M.A./M.Sc. Part – I Annual Examination – 2022

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ıbi	iect:	Applied	Psychology	(New	Course)	,

Paper: II	(Research	Method	ds and Research	n Desian)

Time: 3 Hrs. Marks: 70 \

Attempt	this	Paper	on this	Question	Sheet only.
Division	of m	arks is	aiven in	front of ea	ch guestion.

This Paper will be collected back after expiry of time limit mentioned above.

NOTE: Attempt all questions on question paper. Cutting, rubbing, overwriting, rewriting and double marking is not allowed. There is no negative marking.

Q.1.	Circle "	Τ"	tor true	statement	and "I	F" tor	taise s	tatement

(10x1=10)

Signature of Supdt.:

Roll No. in Fig.

Roll No. in Words.

i.	Science does not bring change in existing knowledge.	True	False
ii.	In conceptual definition, a term is defined by using synonymous terms.	True	False
iii.	If we are studying cause and effect, dependent variable is 'cause'.	True	False
iv.	Sometimes it is not possible to eliminate an extraneous variable.	True	False
٧.	Deduction is a process of making hypothesis from general to specific.	True	False
vi.	In the beginning, focus group must be homogenous.	True	False
vii.	Matched group design can be used with large samples.	True	False
viii.	Quasi experimental designs are same as true experimental designs.	True	False
ix.	In factorial designs, more than two variables can be studied simultaneously.	True	False

In convenient sampling researcher has little control over representativeness

Q.2. Circle the correct option

of sample.

(20x1=20)

False

True

•				(/
i.	The first s	tep while using scientific meth-	od is to	
		ate the problem	b)	Make hypothesis
	,	fine the terms	ď)	Collect the data
ii.	,	often prefer to conduct the	,	nents for which apparatus is easily and
		available. Because of this limi		
		nostic	b) [´]	Opportunistic
	, •	omplete	ď)	Tentative
iii.	•	•	ects of a p	orevious research, it is called
		plication	b) .	
	,	rtial replication	ď)	Extension
iv.	,	sis must be	,	
	• •	rsimonious	b)	Testable
		nceptually clear	ď)	All of these
٧.		scale of measurement ha	s propert	ies of all other scales also.
	a) No	minal	b)	Ordinal
	c) Inte	erval	ď)	Ratio
vi.	Which is n	ot a method of probability sam	npling?	
	a) Clu	ister sampling	b)	Stratified sampling
	c) Sys	stematic random sampling	d)	Quota sampling
vii.		ed theory, analysis is done thro	ough	
	a) Me	moing	b)	Coding
	c) No	tes	d)	All of these
viii.	It is nece	ssary for a researcher to	select on	ly those participants who are willing to
	participate	. This ethical principal is called	<u></u> k	<u> </u>
	a) Ins	titutional approval	b)	Risk/benefit ratio
	c) Info	ormed consent	d)	Debriefing
ix.	Detail of s	ample and sampling strategy i	s mention	ed in
		oduction	b)	Method
	c) Re	sult	d)	Discussion
х.	Whenath	eory explains a concept using	geasy and	d simple terminology, it is called
		rendipity	b)	Parsimony
		sification	ď)	Simplicity

xi.	In	research design, different s	amples	from same po	pulation are studied.
	a)	Cross sectional	b)	Successive in	dependent samples
	c)	Longitudinal	d)	All of these	•
xii.	If a fac	ctorial design experiment has three	indeper	dent variables	and each variable has two
	levels,	possible condition of this experimen	t will be		
	a)	6	b)	8	
	c)	12	d)	27	
xiii.	Which	of the following diagrams show repe	eated pr	e-tests and re	peated post-tests?
	a)	000 X 000	b)	XO XO	XO
	c)	X O1 O2	d)	O1 X	O2
xiv.	If a res	searcher wants to control aggressiv	e and	shy behavior	of a child using single case
	experir	mental design,is bes	st.		
	a)	Multiple baseline design across sub	ojects		
	b)	Multiple baseline design across bel	naviors		
	c)	Multiple baseline design across situ	uations		
	d)	Multiple baseline design across cor	nditions		
XV.	If a re	searcher has to study the effect of	light ar	nd temperature	e on work performance, the
	resear	ch design used will be			
	a)	Random group design	b)	Repeated me	•
	c)	Factorial design	d)	Natural group	•
xvi.	Variab	le control is a key to increase		_of a research.	
	a)	Validity	b)	Internal validit	ty
	c)	External validity	d)	Reliability	
xvii.		earcher is measuring attitude of			
		d. A sample of 100 students is		ed after evei	ry year and fill the sane
	•	onnaire regarding social media. It will			
	a)	Cross sectional	b)		ndependent samples
	c)	Longitudinal	d)	•	sample design
xviii.		fect of subject variables can be stud			
	a)	Independent group design	b)	Random grou	. •
	c)	Matched group design	d)	Natural group	design
xix.	•	case experimental design			
	a)	Is more controlled than single case	study r	nethod	
	b)	Can be used with few subjects			
	c)	Has a problem of external validity			
	d)	All of these	_		
XX.		statement is not true about a theory	?		
	a)	Itorganizes knowledge			
	b)	Itdefines the concept			
	c)	Itexplains relationship between cor	ncepts.		
	d)	It cannot be falsified			

Give short answers: Define theory.	(10 X 4
How reporting of science and non-science is different?	
Write four characteristics of hypothesis.	

vvnat is i	the difference between independent and dependent variable?
Dofino a	juasi experimental designs.
	uasi experimental designs.
In the cc	ontext of factorial design, define 'levels' and 'conditions'.

What is b	olock randomi	ization?		
What is b	olock randomi	ization?		
What is b	lock randomi	ization?		
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P.T.O.

Define inforr	ned consent.		
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ubject:	Applied	Psycholog	y (New	Course)
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Time: 3 Hrs. Marks: 70

Attempt this Paper on this Question Sheet only. Division of marks is given in front of each question.

Signature of Supdt.:

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the best option. (30x1=30)

- 1. Psychological tests are used to
 - a. help make decisions about people
 - b. promote self-understanding

- c. measure psychological constructs
- d. all of the above

- 2. The Army Alpha was
 - a. dependent on the ability to read and write
- b. can be used by the persons who are illiterate
 - c. an early index of reliability developed by military psychologists
 - d. none of the above
- 3. The first self-report test of personality was developed by
 - a. Murray

c. Terman

b. Simon

d. Woodworth

4. Human judgment is influenced by

A personal bias

C errors of central tendency.

B halo effects

D all of the above

5. The Minnesota Multiphasic Personality Inventory – II is an example of a _____ test.

a. criterion-referenced c. self-report

b. performance

- d. self-scoring
- 6. Norm development of psychological tests is done primarily to
 - a. protect the privacy of the test taker
- c. make the scores more manageable
- b. aid in interpretation of the scores
- d. make the scores available for research
- 7. If a z score of 1.33 is obtained, we know that the person's raw score
 - a. is above average

- c. is at average
- b. is lower than the scores of most others on the test
- d. falls at the 84th percentile
- 8. Test-retest reliability is sometimes referred to as
 - a. stability

c. long-term reliability

b. consistency

- d. concurrent reliability
- 9. The concept of 'behavioural domain sampling' in the psychometric theory refers to
 - a. sampling persons from the population with whom a test may be used
 - b. sampling items from the population of possible items that could be used in a test
 - sampling tests from the population of tests available to measure a construct
 - d. sampling methods from the population that could be used to construct a test
- 10. A high coefficient alpha indicates that

A the test has high generalizability

C the test has high internal consistency

B scores on the test are stable

D the test has only one factor

- 11. In general the best reliabilities have been obtained with psychological tests in the
 - a. cognitive domain

c. motivation domain

b. personality domain

d. projective domain

- 12. Content validity
 - a. has no role in test development
 - b. is another name for construct validity
 - c. is relevant in developing achievement tests
 - d. was relied on by Binet and Simon in their work in test development

13. In validity the estimate of error is referred to	as the
a. standard error of the mean	c. standard error of measurement
b. standard error of estimate	d. standard error of the criterion
14. Which of the following the sub types of con-	struct validity?
a. convergent and discriminant validity	c. standard error of measurement
b. concurrent and predictive validity	d. standard error of the criterion
15. The Mental Measurements Yearbook is	
a. a catalogue of test reviews	tosts
b. a classification scheme of psychologicalc. an encyclopedia of psychometrics	lesis
d. a handbook of good practice in assessme	ent
• •	
16. Which of the following is a subtest of 'perc Intelligence Scale – IV?	epiuai reasoning index of the weensier Adult
a. Letter-number sequencing	c. Block Design
b. Digit span	d. Coding
17. General aptitude tests are good measures of	•
tests are good measures of abiliti	
b. fluid; crystallized	c. cognitive; developmentald. developmental; cognitive
18. Which one of the following factors is more	
reliability?	•
a. test length	c. guessing
b. test retest interval	d. content of questions
19. Concurrent validity is relevant to tests that a	
	c. both A & B
b. prediction of future outcomes	
20. The right of an individual that recognizes hi	
he/she shares or withholds from others his attitu	- ,
a. Privacy b. Confidentiality	c. Consent d. Privilege
	• •
21. Raven's Progressive Matrices is an intellige	
a. contains perceptual analogies in the form	
b. has 3 forms for different levels of difficc. has minimal cultural item loading	uity
d. all of the above	
22. A normative sample is a group of people	
a. Who are mentally normal	
b. Who belong to a special social class	
c. Whose performance is used as reference	e
d. All of the above	•
23. Which of the following is NOT used in ne	uro-psychological testing:
a. Bender Gestalt Test	c. Differential Aptitude Test
b. Luria- Nebraska-battery	d. Benton Visual Retention Test
Р	age 2 of 4

P.T.O.

24. MMPI was the product of coll and	aboration between a Psyc	chologist and a Psychiatrist h	aming
a. Hathaway and McKinley	·	Simon and Binet	
b. Harris and Gough		Yerkes and Buck	
25. Item difficulty analysis is appr			
a. MMPI		. Clinical test	
b. Draw a man test	d	. Personality tests	
26. Which of the following has valid	idity subscales?		
 a. Otis quick Scoring Menta 			
b. Minnesota Multiphasic Pe			
c. Graduate Record Examina	ation		
d. Differential Aptitude test			
27. Which of the following is a test			
a. Personality test		Graduate Record Examina	tion
b. Aptitude test		. Differential Aptitude test	
28. A clerical speed and accuracy to		A -laiand do et	
a. Personality testb. Aptitude test		. Achievement test . All of the above	
29. TAT consists of number	-	. All of the above	
a. 20	•	. 31	
b. 30		l. 32	
30. In which of the following, there	_	··	
a. Matching items		Multiple choice items	
b. True-false items		Completion items	
Q.2. Encircle the correct op	tion	-	(10 x1=10)
			(10 X1-10)
1. Group tests can be given in	ndividually.		T/F
2. Individual tests are time co	onsuming.		T/F
Time limit is made short in	n projective tests.		T/F
4. WAIS is a group test.			T/F
Higher the standard deviate			T/F
One's learning in particula	•	est described as aptitude.	T/F
7. In RISB, 120 score is cons			T/F
8. Objective items demand a	highly skilled scorer.	C-15 - C 4 - 41 - 4 - 1 - 4 - 1 - 1 - 1 - 1 -	T/F
9. The behavior of a person of		e of the fact that he/she is bei	mg T/E
observed. This is called ex	•		T/F T/F
10. Test items should have hig	in aimcuity level.		1 / Γ
Q.3. Fill in the blanks.			(10 x1=10)
1. Intelligence Quotient =	1	x 100.	(10 x1=10)
2. Stanine has the mean value			
		and	
- ·		called test	
		to different cultures are calle	ed
	tests.		
6. Binet Simon scale was or	iginally published in	language.	
7. A test was divided into tv	vo halves for the purpose	of reliability estimation. Th	is type of
reliability is called	reliability.		
8. Wisconsin Card Sorting	rechnique is used for	testing.	•
9. MMPI stands for			
10. To assess the power of ex	-		و

Q.4. Match the items of 'A' with names in 'B' and write the appropriate number from 'B' in 'C' (10x1=10)

A	B	C
1. CAT	a. Bennett, Seashore & Wesman	
2. RISB	b. David Wechsler	
3. HTP	c. Rapaport, Gill and Schafer	
4. MMPI	d. Raymond, B. Cattell	
5. TAT	e. J. C. Raven	
6. WAIS	f. Hathaway & Mckinley	
7. 16PF	g. J. N. Buck	
8. RPM	h. Henry A. Murray	
9. WAT	i. J. B. Rotter	
10. DAT	j. Leopold Bellak	

Q.5. i.	Write short notes on following. Percentile norms.	(2 x 5 = 10)
ii.	Eysenck Personality Questionnaire.	

MA/MSc	Part – I	Annual Examination – 2022
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Roll	No. i	in Fi	g			 	
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ubject:	Applied	Psych	nology	(New	Course)

Attempt	this	Paper	on this	Question	Sheet only.
Division	of ma	ırks is	given in	front of e	ach question.

Signature of Supdt.:

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle one correct answer. Overcutting is not allowed.

(10x1=10)

1. Which of these models of psychopathology would suggest that psychological disorders are a result of dysfunctional thinking patterns?

a. Medical model

c. Biological model

b. Cognitive model

d. Behavioral model

2. Comorbidity explains the notion that

- a. People suffering with the same psychopathology die at the same time.
- b. Sufferers exhibit a chronic fear of death.
- c. Depression always happens in the winter.
- d. Differentially defined disorders can co-occur.

3. Which of these disorders are a group of conditions with onset in the developmental period?

- a. Neurocognitive disorders
- b. Neurodevelopmental disorders
- c. Eating disorders
- d. Elimination disorders

4. What is trephination?

- a. Using of herbs
- b. Calling holy spirits

- c. Removing the spleen
- d. Making a hole in the skull

5. Someone remaining preoccupied with fears of having a serious illness, but Somatic symptoms are not present or if present they are mild, indicates

a. Illness anxiety disorder

- c. Functional Neurological symptom disorder
- b. Somatic symptoms disorder
- d. Somatoform disorder NOS
- 6. A chronic sleep disorder characterized by overwhelming daytime drowsiness and sudden attacks of sleep is called
 - a. Narcolapsy

c. Nightmare Disorder

b. Cataplexy

d. Sleep terrors

7. According to DSM 5, lifetime experience of at least one episode of major depression and at least one hypomanic episode is called

a. Bipolar I disorder

c. Cyclothymic disorder

b. Bipolar II disorder

d. Substance/medication-induced bipolar

8. Diminished interest in almost all activities for same two weeks is key symptom of

- a. Mood dysregulation disorder
- c. Persistent depressive disorder
- b. Major depressive disorder
- d. Dysthymia
- 9. Which of the following is NOT a symptom of Mania?
 - a. Decreased need for sleep
- c. Distractibility

b. Decreased appetite

d. Increase in goal-directed activity

10. Recurrent pulling out of one's hair resulting in hair loss is feature of

- a. Body dysmorphic disorder
- c. Trichotillomania

b. Hoarding disorder

d. Excoriation

Q.2. Fill in the blanks.

(10x1=10)

1. In epidemiology, the proportion of a particular population found to be affected by a			
	disorder/ condition at a specific time, is called	•	
2.	2. The concept that imbalance of four fluids (humors)	cause abnormality was introduced	
	by		
3.	3. A set of questions and observation that evaluates clien	t's awareness, orientation, insight	
	and appearance etc. is called	examination.	

4.	Delusions, hallucir	nations, disorganized thoughts, and disorganized speech are symptoms of schizophrenia.	
5	Gradually increase	symptoms of scinzophicina. d intensity of shaking, stiffness, and difficulty with walking, ba	lance
٥.	•	main symptom of	amov,
6.		of hypochondriasis is labeled in DSM 5 as	.
77.	A sham treatment t	hat the participant in an experiment believes to be genuine is ca therapy.	lled
8.	Having a feeling the manifestation of	nat one's actual gender identity is different from his assigned ge	nder is
9.	Inability to feel ple	asure in normally pleasurable activities is called	
10	. Bringing up the pro	eviously swallowed food repeatedly leads to diagnose	·
Q.3.	Mark each Sta	atements either True or False	(10x1=10)
1. I	Death of close friend	due to natural causes is trauma.	T/F
		that appear in the absence of any stimulus are called delusions.	T/F
3. E	Extremely elevated n	nood and grandiose ideas are key symptoms of manic episode.	T/F
		atic symptoms related disorders have their initial presentation n	
_ p	rimary care and med	nical settings. sused by the presence of all or part of a third copy of chromoson	T/F
	alled mental retarda		T/F
-		cation by inflicting injuries to opposite partner is Masochism.	T/F
		at involves frequent and significant problems with normal fluen	
	low of speech is call	• • • •	T/F
8. 7	The term performance	e anxiety refers to fear of failing to achieve a sustained erection	
		lse-control, and conduct disorders all tend to be lower in males	
	emales.	1	T/F
10. £	n agoradnobia socia	l situations are avoided or endured with extreme fear or anxiety	. 1/F
Q.4.		of these Abbreviations?	(10x1=10)
1.	SAD		
2.	ICD		
3.	ADHD		
4.	PET		
5.	OCD		
6.	EEG		
7.	SSRI		
8.	MRI		
9.	WHO		
10.	CBT		



M.A./M.Sc. Part - I Annual Examination - 2022

Subject: Applied Psychology (New Course) Paper: IV (Abnormal Psychology)

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I IIM	e: z mrs.	Marks: 60	

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Note: Attempt ALL questions.

Q.5. Match the Column.

(5)

A	В	C		
Emil Kraepelin	Psychoanalysis		atomy 1.7 Mar.	
Friedrich Mesmer	Father of American psychiatry			
Sigmund Freud	Hysterical disorders			-
Philip Pineal	Dementia praecox			
Benjamin Rush	Humane psychological approach			

Q.6. Give short answers

(5x3=15)

- 1. Intellectual disability
- 2. Criteria of abnormal behavior
- 3. Ego defense mechanisms by Freud
- 4. Tic Disorder
- 5. Catatonia

Q.7. Differentiate the following.

(5x4=20)

- 1. Incidence and prevalence
- 2. Agoraphobia and social anxiety disorder
- 3. Schizophrenia and schizoaffective disorder
- 4. Neurocognitive and Neurodevelopmental disorder
- 5. Anorexia nervosa and Bulimia nervosa

Q.8. Give a detailed note on the following.

(2x10=20)

- 1. Describe Schizophrenia spectrum and other psychotic disorders.
- 2. Write a detailed note on research methods in abnormal psychology.



M.A./M.Sc. Part – I Annual Examination – 2022

Roll No. in Words. Time: 1 Hrs. Marks: 40

Subject: Applied Psychology (New Course)

Paper: V (Statistics in Psychology)

Attempt this Paper on this Question Sheet only. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle one correct answer. Overcutting is not allowed. (20x1=20)

Roll No. in Fig.

Signature of Supdt.:

- 1. Which of the following describes mean?
 - a. 50th percentile

b. balancing point

c. 2nd quartile

- d. all of the above
- 2. Which of the following is NOT true about statistics?
 - a. It can be inferential only
- b. it analyzes quantitative data
- c. It summarizes the data
- d. it is useful in research
- 3. Which of the following is considered the best measure of dispersion?
- a. Range
- b. Quartile deviation
- c. Mean deviation
- d. Standard deviation
- 4. Which measure of central tendency is applicable when data is on Nominal scale?
 - a. Mean

b. Median

c. Mode

- d. All of the above
- 5. Rejecting the null hypothesis when it is false is
 - a. Type I error
- b. Type II error
- c. Correct decision
- d. incorrect decision
- 6. The median of the following set of data 12, 18, 13, 11, 12, 15, 17 is
 - a. 11

b. 11.5

c. 13

- d. 12
- 7. If mean is greater than mode, the distribution is
 - a. Negatively skewed
- b. Positively skewed
- c. Symmetrical
- d. Normal
- 8. To represent marks of students in a class test, the appropriate graph will be
 - a. Pictograph
- b. Bar diagram
- c. Histogram
- d. Pie chart
- 9. Most commonly deviations of scores are taken from
 - a. Mean

b. Median

c. Mode

- d. extreme scores
- 10. A variable that can take infinite number of values between any two observed values, is called
 - a. Discrete

- b. Continuous
- c. Quantitative
- d. independent
- 11. Time taken in solving a puzzle' is an example of
 - a. Nominal scale

b. Ordinal scale

c. Interval scale

- d. Ratio scale
- 12. A frequency distribution can be converted into relative frequency distribution by adding the column
 - a. Cumulative frequency
- b. Real limits

c. Proportions

- d. Mid points
- 13. If a score is equal to the mean, its z score will be
 - a. A positive value
- b. A negative value

c. Zero

- d. Can not be determined
- 14. Which of the following is parametric?
 - a. Chi square

- b. ANOVA
- c. Wilcoxon Signed ranks
- d. Spearman correlation

- 15. When applying parametric statistics, a result will be considered significant if
 - a. calculated value is smaller than the table value
 - b. p is smaller than alpha
 - c. calculated test value is greater than the alpha value
 - d. all of the above

16.	. In regi	ression equation, b is		
	a.	Regression coefficient	b. y-intercept	
		Constant	d. Predicted value	
17.		of these following distributions has a	_	
		Z	b. F	
-1 0 -	C.	· · · · · · · · · · · · · · · · · · ·	d. r	
18	•	sis of Variance (ANOVA) is used to on Two means are different from each of		a **
		Three or more means are different fr		
		Three or more variances are differen		
		Three or more variances are equal or		
19		and alternate hypothesis are Ho: $\mu =$		to use
		Two tailed test	b. Right tailed test	
		Left tailed test	d. all of the above	
20		uare test of goodness of fit compares		
		Means	b. Variances	
	C.	Number of categories	d. Frequencies	
Q.2	. Ma	rk each Statements either True or F	False (1	0x1=10)
Q.2	. Ma	rk each Statements either True or F	False (1	0x1=10)
		rk each Statements either True or Fative correlation means that if one var	`	·
1.	A neg		`	·
1. 2.	A nega	ative correlation means that if one var	iable decreases, other also decreases	s. T / F
1. 2. 3.	A negative A same	ative correlation means that if one var	iable decreases, other also decreases	s.T/F T/F
1. 2. 3. 4.	A negative A same Pearson Regree	ative correlation means that if one var ple is a subset of population. on correlation is used for ordinal scale	iable decreases, other also decreases /ranked data.	T/F T/F T/F T/F
1. 2. 3. 4.	A negative A same Pearson Regree	ative correlation means that if one var ple is a subset of population. on correlation is used for ordinal scale ssion line is called the least fitting line	iable decreases, other also decreases /ranked data.	T/F T/F T/F T/F
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1. 2. 3. 4. 5.	A negative A same Pearson Regress If the 2 +1.	ative correlation means that if one variable is a subset of population. on correlation is used for ordinal scale assion line is called the least fitting line X and Y both variables increase, the contractions are set of the contraction of th	iable decreases, other also decreases /ranked data. c. cefficient of correlation will be bety o samples.	S. T/F T/F T/F T/F ween 0 and T/F
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Q.3	Fill in the Blanks.	(10x1=10)
1.	The mode is the value that occurs	frequently in the distribution.
2.	The distance between the lowest and the	e highest score in the data is called
3.	Mean of standard normal distribution ha	as a value of 0 and standard deviation has a value
	of	
4.	In a normal distribution, the area between	en ± 3 SD is%.
5.	Z scores express scores in terms of devi	ation of scores taken from
6.	Regression that deals with one DV and	more than one IV is called
	regression.	
7.	The branch of statistics that deals with o	organizing, summarizing and presenting data is
	called statistics.	
8.	The numerical value computed from a s	ample is referred to as
9.	A value that divides data into two equal	halves is called
10.	A chart that is constructed by drawing a	reas while calculating degrees out of 360, is called

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M.A./M.Sc. Part – I Annual Examination – 2022

Subject: Applied Psychology Paper: V (Statistics in Psychology)

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Time: 2 Hrs. Marks: 60

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Note: Attempt any FOUR questions. All questions carry equal marks.

Q 4. A) A psychologist conducted a study to find relationship between creativity and academic performance. A random sample of 6 people was obtained and creativity test scores and GPAs were obtained. Find Pearson correlation between the variables. (10 marks)

Creativity	5	8	5	6	9	4
GPA	2.5	4.0	2.5	3.0	3.7	2.0

B) What are the properties of normal distribution? (5 marks)

Q5. A) Two independent groups of individuals, one with agoraphobia and other without agoraphobia, reported how often they had ventured out in the past month. Find if there is any significant mean difference in number of trips participants take at $\alpha = .05$. (10 marks)

With	Without
agoraphobia	agoraphobia
3	11
3	8
2	9
0	7
0	4
2	8
3	3

B) Write down differences between independent and repeated measures t test. (5 marks)

Q6. A) For the following set of scores, find regression coefficient (b).

(10 marks)

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	X	7	4	_ 6	4	5	5		
	Y	12	3	5	6	7	6		

- B) Write down steps in hypothesis testing. (5 marks)
- Q7. A) Define critical region and level of significance. (4 marks)
 - B) Define effect size. Name the effect sizes used with t test and ANOVA. (6 marks)
 - C) What are the differences between parametric and non-parametric tests? (5 marks)
- Q8. A) What are the differences between one way and two-way ANOVA? (3 marks)
 - B) Find mean, median and mode for the following set of data. (12 marks)

-	,								
١	X	5	6	7	8	9	10		
	f	1	3	5	2	2	3		