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496253

(Pages : 3)

Name... TRANSPYOS

Reg. No... 0116

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
APRIL 2024

Statistics

STA 4C 02—STATISTICAL TECHNIQUES FOR PSYCHOLOGY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

*All questions can be attended.*

*Each question carries 2 marks.*

*Overall Ceiling 20.*

1. State the null hypothesis and alternative hypothesis of two way Anova.
2. What is contingency table ?
3. What is Yates correction ?
4. When should the nonparametric methods be preferably used ?
5. How do you define an experimental unit ?
6. What do you understand by randomization in experimental design ?
7. What is the test statistics for Kruskal- Wallis test ?
8. Define ordinary Sign test.
9. What do you meant by pilot survey ?
10. What is the Wilcoxon signed rank test used for ?
11. What is meant by nominal scale ?
12. Define the term reliability.

(Ceiling 20 marks)

Turn over

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### Section B

*All questions can be attended.*

*Each question carries 5 marks.*

*Overall Ceiling 30.*

13. Define Critical difference. Explain in the context of one way classified data.
14. The following table gives the number of aircraft accidents that occurs during the various days of the week. Find whether the accidents are uniformly distributed over the week.

Days	:	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
No. of accidents	:	14	16	8	12	11	9	14

(Given the values of Chi-square significant at 5, 6, 7 df are respectively 11.07, 12.59, 14.07 at 5 % level of significance)

15. Explain the procedure of Kruskal Wallis test.
16. Derive the sign test, stating clearly the assumptions made.
17. What is meant by a factorial experiment?
18. Explain the meaning of Analysis of variance and give its uses.
19. What are the important points to be made while preparing a good questionnaire?

(Ceiling 30 marks)

### Section C

*Answer any one question.*

*The question carries 10 marks.*

20. In a study of vitamin supplementation, 10 animals were randomly assigned to each of 3 treatment groups :

Control 1	Control 2	Control 3
5.09	4.23	4.73
4.41	5.45	5.23
3.73	4.27	4.05
4.14	4.59	3.59
5.00	4.68	4.91

Control 1	Control 2	Control 3
3.32	4.14	3.82
3.73	3.77	4.59
3.94	5.09	4.26
3.56	4.78	4.04
4.07	4.92	4.38

Are the mean significantly different?

21. (a) Define the term scale of measurements. What are the different scales of measurements? Briefly explain each scale of measurements?
- (b) Explain  $2^3$  factorial experiment.

(1 × 10 = 10 marks)



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D 103204

(Pages : 2)

Name prisha

Reg. No. TFANWSP Y003

**FOURTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION  
APRIL 2024**

Psychology

PSY4B 01—INDIVIDUAL DIFFERENCES

(2018 Admission onwards)

Time : Two Hours and a Half

Maximum : 60 Marks

**Part A**

*Answer all questions in two or three sentences*

*Each question carries 2 marks.*

*There will be a ceiling of 20 marks in this section*

1. Personality.
2. Source trait.
3. Emotional intelligence.
4. Instinct.
5. Intelligence.
6. Heredity & Environment.
7. DAT.
8. Psychological test.
9. Real self.
10. Interview.
11. Seguin form board test.
12. Intelligence.

(Ceiling 20 marks)

**Part B**

*Answer all questions in a paragraph.*

*Each question carries 5 marks.*

*There shall be a ceiling of 30 marks in this section.*

13. Psychodynamic approach.
14. Fluid intelligence.

Turn over

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15. Psychological Testing.  
 16. DAT.  
 17. IQ.  
 18. Behavioural observation.  
 19. Practical intelligence.

(Ceiling 3)

### Part C (Essay questions)

Answer any **one** question.  
 The question carries 10 marks.

20. Describe any 2 major theories of intelligence.  
 21. Explain the relevance of projective measures of personality.

(1 × 10 = 10)

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D 103209

(Pages : 2)

Name.....Dilsha.....

Reg. No.....FEAM1SPV003.....

**FOURTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION  
APRIL 2024**

Psychology

PSG 4C 01—HUMAN PHYSIOLOGY – IV

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

**Part A**

Answer *all* questions in a sentence. Each carries 1 mark.

1. Frohlich's syndrome.
2. Peptide YY.
3. Huntington's disease.
4. Gonads.
5. Pica.
6. estrogen.
7. Ghrelin.
8. Amygdala.
9. Neoplasm.
10. Fetal hormones.

(10 × 1 = 10 marks)

**Part B**

Answer any *five* questions. Each carries 2 marks.

11. Cerebral haemorrhage.
12. Anterograde amnesia.
13. Glucostatic theory of feeding.
14. Obesity.
15. Multiple sclerosis.
16. Apoptosis.

Turn over

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- ~~17.~~ Cellular dehydration thirst.
- ~~18.~~ Neurotoxins.
- ~~19.~~ Gonadal hormones.
- ~~20.~~ Hypothalamus.

### Part C

Answer any *five* questions in a paragraph. Each answer carries 4 marks.

- ~~21.~~ Physiology of aggressive behaviour.
- ~~22.~~ Neuropsychological disorders.
- ~~23.~~ Neural mechanism of sexual behavior.
- ~~24.~~ Write notes on epilepsy and its types.
- ~~25.~~ Types of eating disorders.
- ~~26.~~ Role of hormones in food intake.
- ~~27.~~ Thirst receptors.
- ~~28.~~ Regulation of food intake.

### Part D

Essay question. Answer any *two* questions. Each answer carries 10 marks.

- ~~29.~~ Discuss on neural involvement in emotion.
- ~~30.~~ Elaborate on feeding centers in the brain.
- ~~31.~~ Which are the infections affecting brain ?
- ~~32.~~ Explain the dynamics of sexual behaviour

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(Pages : 2)

Name.....

Reg. No.....

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
APRIL 2023**

Psychology

PSY 4B 01—INDIVIDUAL DIFFERENCES

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

**Section A**

*Answer all questions in two or three sentences.*

*Each question carries 2 marks.*

*There is a ceiling of 20 marks in this section.*

1. Define intelligence.
2. Self report inventories.
3. Fluid and crystallized intelligence.
4. Define aptitude.
5. Collective unconscious.
6. Source and surface traits.
7. Projective tests.
8. Fixation.
9. IQ.
10. Fully functioning person.
11. Ego defense mechanism.
12. Intellectually gifted.

(Ceiling 20 marks)

**Turn over**



**Section B**

*Answer all questions in a paragraph of about half a page to one.*

*Each question carries 5 marks.*

*There is a ceiling of 30 marks in this section.*

13. Levels of consciousness.
14. Questionnaires and inventories.
15. Eysenck's dimensions of personality.
16. Types of interest tests and its measurement.
17. Role of heredity and environment in intelligence.
18. Explain types of intelligence tests.
19. Thurstone's primary mental abilities.

(Ceiling 30)

**Section C**

*Answer any one question as essay.*

*Question carries 10 marks.*

20. Discuss the humanistic approach to personality.
21. Emotional intelligence theory.

(1 × 10 = 10)

C 21652

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(Pages : 2)

Name..... Aksa James .....

Reg. No. ....~~21652~~.....

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2022

Psychology

PSY 4B 01—INDIVIDUAL DIFFERENCES

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

Answer atleast **eight** questions.

Each question carries 3 marks.

All questions can be attended.

Overall ceiling 24.

- ✓ 1. Morality principle.
- ✓ 2. g factor.
3. Functional autonomy.
- ✓ 4. Self actualization.
5. Archetypes.
- ✓ 6. EPQ.
- ✓ 7. Aptitude.
- ✓ 8. Projection.
- ✓ 9. Eros and thanatos.
- ✓ 10. Unconditional positive regard.
- ✓ 11. Latency.
- ✓ 12. Wechsler scale.

(8 × 3 = 24 marks)

Turn over

197158

**Section B**

Answer atleast **five** questions.  
Each question carries 5 marks.  
All questions can be attended.  
Overall ceiling 25.

- ✓ 13. Guilford's structure of intellect model.
- ✓ 14. Structure of personality by Jung.
- ✓ 15. Gardner's multiple intelligence theory.
- 16. Self report inventories its strength and weakness.
- 17. Maslow's approach to personality.
- ✓ 18. Extremes of intelligence.
- ✓ 19. Freud's view on structure of personality.

(5 × 5 = 25 marks)

**Section C**

Answer any **one** question.  
The question carries 11 marks.

- ✓ 20. Discuss trait and type approaches to personality.
- ✓ 21. Explain the history of evolution of intelligence test.

(1 × 11 = 11 marks)



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(Pages : 3)

Name Aksa James

Reg. No. ~~177881~~

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**FOURTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION, APRIL 2022**

Psychology

PSG 4C 01—HUMAN PHYSIOLOGY—IV

(2019 Admission onwards)

Maximum : 60 Marks

Time : Two Hours

**Section A**

*Answer all questions.*

*Each question carries 1 mark.*

- ✓ 1. Osmotic thirst.
- ✓ 2. Multiple sclerosis.
- ✓ 3. Neuroplasticity.
- ✓ 4. Testosterone.
- ✓ 5. Parkinson's disease.
- ✓ 6. Amino acid.
- ✓ 7. Ischemia.
- ✓ 8. Cholecystokinin.
- ✓ 9. Preoptic nucleus.
- ✓ 10. Cachexia.

(10 × 1 = 10 marks)

**Section B**

*Answer atleast five questions.*

*Each question carries 2 marks.*

*All questions can be attended.*

*Overall ceiling 10.*

- ✓ 11. Inanition.
12. Huntington's disease.

**Turn over**

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- ✓13. Frohlich's syndrome.
- ✓14. Wolffian ducts.
- ✓15. Obesity.
- ✓16. Neurotoxins.
- ✓17. Testosterone.
- ✓18. Hypovolemic thirst.
- ✓19. Amino acids.
- ✓20. Picca.

(5 × 2 = 10 marks)

### Section C

Answer atleast **four** questions.

Each question carries 5 marks.

All questions can be attended.

Overall ceiling 20.

- ✓21. Role of amygdala in emotions.
- ✓22. Neural control of food intake.
- ✓23. Physiological basis of thirst.
- ✓24. Developmental aspects of sexual behaviour.
- ✓25. Role of hypothalamus in sexual behaviour.
- ✓26. Influence of hormone in puberty.
- ✓27. Role of frontal lobe in emotions.
- ✓28. Cerebrovascular disorders.

(4 × 5 = 20 marks)

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**Section D**

*Answer any two questions.*

*Each question carries 10 marks.*

1004

ER 2022

29. Explain epilepsy and its types.
30. Discuss the physiological basis of hunger.
31. Elaborate on functioning of gonadal hormones
32. What are the causes of brain damage?

0 Marks

(2 × 10 = 20 marks)

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C 21557

180655

(Pages : 2)

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**FOURTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION, APRIL 2022**

Y004

Statistics

ER 2022

**STA 4C 02—STATISTICAL TECHNIQUES FOR PSYCHOLOGY**

(2019 Admission onwards)

Maximum : 60 Marks

Time : Two Hours

0 Marks

**Section A**

*Answer at least **eight** questions.  
Each question carries 3 marks.  
All questions can be attended.  
Overall Ceiling 24.*

- ✓ 1. What are the assumptions of ANOVA?
- ✓ 2. Write down the test statistic of chi-square test for testing homogeneity.
- ✓ 3. Define interaction effect in factorial design.
- ✓ 4. Define nominal and ordinal scale of measurements.
- ✓ 5. What are the applications of chi-square test?
- ✓ 6. Define critical difference.
- ✓ 7. Explain the concept of pre-testing the questionnaire.
- ✓ 8. State the null and alternative hypotheses of chi square test for independence of attributes.
- ✓ 9. Define non parametric test.
- ✓ 10. Describe the ANOVA model for one way classified data.
- ✓ 11. Write a short note on run test.
- ✓ 12. What are the reasons to use non parametric tests?

(8 × 3 = 24 marks)

**Section B**

*Answer at least **five** questions.  
Each question carries 5 marks.  
All questions can be attended.  
Overall Ceiling 25.*

- ✓ 13. Conduct the analysis of variance for a one way classified data.
- ✓ 14. Explain the chi-square test for goodness of fit.
- ✓ 15. Explain Kruskal Wallis Test.

**Turn over**

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16. Explain  $2^3$  factorial experiment with an example.
17. Briefly explain the reliability and validity of test scores.
18. The demand for a particular spare part in a factory was found to vary from day to day. In a sample study the following information was obtained :

Digits	Mon	Tues	Wed	Thurs	Fri	Sat	Total
Frequency	1124	1125	1110	1120	1126	115	6720

Test whether the number of parts demanded does not depend on the day of the week at 5% level of significance.

19. Using Sign test, test whether the median body length ( $\theta$ ) of frogs of a particular variety is  $H_0 : \theta_0 = 6.9$  cms against the alternative hypothesis  $H_1 : \theta_1 = 6.9$  with  $\alpha = 0.05$  on the basis of the following measurements :

6.3, 5.8, 7.7, 8.5, 5.2, 6.7, 7.3, 5.6, 8.3, 7.7, 8.2, 6.0, 6.8, 6.9, 7.3, 7.0, 7.1, 6.6, 7.4

(5 × 5 = 25 marks)

### Section C

Answer any one question.

The question carries 11 marks.

20. The following figures related to the number of units sold in five different areas by four salesmen :

Area	Number of Units			
	A	B	C	D
1	80	100	95	70
2	82	110	90	75
3	88	105	100	82
4	85	115	105	88
5	75	90	80	65

Is there any significant difference at 5% level of significance in the efficiency of these salesmen?

21. (a) Explain the test procedure for chi square test for independent of attributes.
- (b) Explain the test procedure for chi square test for goodness of fit.

(1 × 11 = 11 marks)