

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester B.Sc Psychology Degree Examination, April 2023

BST4C08 – Statistical Techniques for Psychology

(2019 Admission onwards)

Time: 2 hours

Max. Marks : 60

SECTION-A

Each question carries 2 Marks.

Maximum Marks that can be scored in this section is 20

1. What is meant by reliability?
2. What do you understand by chi- square test of goodness of fit?
3. Write down the formula of chi- square while using 2x2 contingency table?
4. What is a non- parametric test?
5. What is meant by Nominal scale?
6. State three assumptions of ANOVA technique?
7. Which test is applied in ANOVA technique?
8. What are the disadvantages of a sign test?
9. Explain the use of chi- square test of homogeneity?
10. What is meant by a run?
11. Write any two advantages of non parametric test?
12. What are factorial experiments?

SECTION-B

Each question carries 5 Marks.

Maximum Marks that can be scored in this section is 30.

13. What is one way classification in ANOVA?
14. A salesman of a company visited at random 8 cities. He got the following number of orders: 5,6,4,8,2,4,9,1. Check whether the average number of orders obtained is less than 7. Use sign test at $\alpha = 0.05$.
15. Explain the procedure in 2^2 factorial design?
16. Briefly explain Wilcoxon's Rank sum test
17. Explain the chi- square test for homogeneity of proportions?
18. Write a short note on Krushkal- Wallis test

19. A sample of 320 units of manufactured products classified according to the quality of the product and the production shift is given below:

Shift/Quality	Good	Bad
Day	150	20
Night	105	45

Using the Chi square test find whether quality depends on shift?

SECTION-C

(Answer any one question and carries 10 marks)

20. The following table gives the yields of wheat in 30 test plots which are given 3 different fertilizers. Test whether the fertilizers are equal in their effect.

Fertilizer I	Fertilizer II	Fertilizer III
50	60	40
60	60	50
65	65	50
70	70	60
80	75	60
75	80	60
80	70	65
85	75	75
75	85	70
75	80	70

21. (i) Define the term Questionnaire?
(ii) Explain the steps involved in the construction of a Questionnaire?

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Fourth Semester B.Sc Psychology Degree Examination, April 2023

BPS4B01 – Individual Differences

(2019 Admission onwards)

Time: 2 hours

Max. Marks : 60

SECTION -A

Answer *ALL* Questions. Answer in Two or three sentences. Each carries 2 marks.
There shall be ceiling of 20 marks in this section

1. Define Componential intelligence
2. Define Basic anxiety
3. Discuss Heritability of intelligence
4. What is Electra complex
5. Define Aptitude
6. What is Culture Fair test
7. Define Anima
8. What are Primary Mental Abilities
9. Describe WPPSI
10. What is Pattern Drawing Test
11. Discuss Big five factor
12. Explain EPQ

(Ceiling 20 marks)

SECTION -B

Answer *all* questions. Answer in a paragraph of about half a page to one page .
Each question carries 5 marks. There shall be ceiling of 30 marks in this section

13. Write a short note on distribution of IQ scores
14. Explain 16 PF
15. Describe Emotional intelligence
16. Explain Guilford's structure of intelligence
17. Differentiate between surface and source traits
18. Discuss the Strengths and weakness of projective tests
19. Explain Carl Jung's basic structure of personality

(Ceiling 30 Marks)

SECTION -D

Essay Type Questions

Answer *Any one* of the following .Each Carries 10 Marks.

20. Elaborate various assessments of intellectual abilities

21. Explain Type and Trait theories of Personality

(1 x 10= 10 marks)

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Fourth Semester B.Sc Psychology Degree Examination, April 2023

BZL4C06 – Human Physiology

(2019 Admission onwards)

Time: 2 hours

Max. Marks : 60

SECTION -A

Answer ALL Questions. Answer in Two or three sentences. Each carries 2 marks.**There shall be ceiling of 20 marks in this section**

1. List out any two symptoms of Bulimia.
 2. Define Picca.
 3. Name any one fetal hormone and its role in sexual development.
 4. Define puberty.
 5. Name the neurotransmitter that is dominant in the brain reward center.
 6. Define hypovolemic thirst.
 7. Define apoptosis.
 8. List out any two symptoms of cerebral ischemia.
 9. Name any two female secondary characters?
 10. Name the hormones which increase in males during puberty.
 11. List out any two characteristic features of Huntington's disease.
 12. Compare and contrast Alzheimer's disease and Parkinson's disease. (any two points each)
- (Ceiling 20 marks)

SECTION -B

**Answer all questions. Answer in a paragraph of about half a page to one page .
Each question carries 5 marks. There shall be ceiling of 30 marks in this section**

13. Define Obesity. What are its consequences?
 14. Compare and contrast the structure of male and female hypothalamus.
 15. Explain the functions of amygdala.
 16. Justify infections of brain and neurotoxins as causative agents of brain damage.
 17. Explain the role of hypothalamus in food intake.
 18. How do perinatal hormones regulate behaviour.
 19. . How do frontal lobes control behaviour (any four points only)
- (Ceiling 30 Marks)

SECTION -C

Essay Type Questions

Answer Any one of the following. Each Carries 10 Marks.

20. Explain the role of hormones on the quantity of food intake.
 21. Elucidate the central factors that form the physiological basis for thirst and water intake.
- (1 x 10 = 10 marks)