Sl.No. M19247 Course Code: 2740206

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM (Deemed to be University)

B.Sc OPTOMETRY DEGREE EXAMINATION – August 2018 Second Year

STATISTICS AND OCCUPATIONAL OPTOMETRY

Time: Three hours Maximum: 80 marks

Use Separate answer books for PART – A - STATI	
Time: One and half an hour	Maximum: 40 marks
SECTION -	A
I. Answer ALL Questions:	$(5 \times 1 = 5)$
 ANOVA stands for diagram is one of the simple representation of a bivariat distribution Co-efficient of is given by the non determination data represents the time of the simple representation of a bivariat distribution 	the square root of co-efficient of coccurance of an event.
II. Match the following:	$(5 \times 1 = 5)$
 Mean – cohort of subject and watching. Range – methods for analysis data Prospective studies – central tendance Survival analysis relationship b/w vanalysis r	cy ariable to predict west value.
 II. Write short notes on any TWO of the follo 6. Types of investigation 7. Screening and diagnosis 8. Give the symbols of the following (a) summation of variable (b) Frequency (c) Arithmetic mean (d) Summation of frequencies (e) Class interval 	wing: $(2 \times 5 = 10)$

9. Histogram, line chart

SECTION - C

III. Write an essay on any **TWO** of the following:

 $(2 \times 10 = 20)$

- 10. Prepare questionnaire for dry eye survey
- 11. Explain in detail about cohort study
- 12. Calculate mean deviation from mean values of following dates.

Class interval	0-4	4-8	8-12	12-6	10-20
Frequency	4	6	8	5	2

13. Describe the following (a) case control study (b) census

PART – B – OCCUPATIONAL OPTOMETRY

Time: One and half an hour Maximum: 40 marks

SECTION - A

I. Multiple Choice questions:

 $(5 \times 1 = 5)$

- 1. Adhesions between palpebral and balbar conjunctiva.
 - a. Symblepharon
 - b. Ankyloblepharon
 - c. Layophthalmos
 - d. Blepharitis
- 2. Sunflower cataract is produced by deposition of
 - a. calcium
 - b. Iron
 - c. Copper
 - d. Protein
- 3. Nagles anomaloscope is used to check
 - a. colour vision
 - b. field of vision
 - c. Binocular vision
 - d. Steriopsis
- 4. Units of illumination is
 - a. mm/Hg
 - b. cm²
 - c. LUX or foot candles
 - d Jule

5.Bjerrum's screen is used to measure.a. AC/A ratiob. field of visionc. visual acuityd. Intraocular pressure	
II. State whether the following statements are TRUE or FALSE :	$(5 \times 1 = 5)$
 Orbital blow out fracture mainly involves in orbital floor and me wall Ionizing radiations include x-rays or gamma rays. Chemical sampling usually done by gas chromatography or mass spectrometry methods Visual acuity test the form sense colour vision testing mandatory for drivers. 	
III. Fill in the blanks:	$(5 \times 1 = 5)$
 and are the benefits of EST act. amount of illumination needed for tunnels and under the distance of cm The muscle involves orbital blow out fractures us are used to protect laser hazards SECTION - B	erground.
IV. Answer any THREE of the following: ($(3 \times 5 = 15)$
 What is colour vision? How is colour vision tested? Name few vision defects. What are the effectiveness of radiation on the eyes? Name few occupational disease. How will you prevent occupational eye disease? (a) Definition of occupational health (b) Occupational safety 	colour
SECTION - C	
V. Discuss in detail on any ONE of the following questions: (1	x 10 = 10
 Describe various protective equipments Causes of accidents. 	
