



6th Semester End Term Examination: MAY - 2023.

Subject : Research Project - I

Course : B. Optometry

Full Marks : 70

Roll No:

Time : 3 Hours.

Instructions to the Candidates:

- Read the question paper very carefully.
- Start writing from 2nd page onwards; Don't Write On The 1st Page Backside.
- Question Paper is divided into Three Parts -A, B & C.
- Part-A is containing Twelve multiple choice questions.
- Part- B containing SIX questions out of which FOUR questions are to be answered.
- Part C containing FOUR questions out of which TWO questions are to be answered.
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PART - A

Multiple Choice Questions

[12x1=12]

- 1 (i). Which of the following is not an element of Literature Review?
a) Introduction
b) Conclusion
c) Heading
d) Methodology
- ii).is making up data or results and recording or reporting them.
a) Plagiarism
b) Falsification
c) Publication
d) Fabrication
- iii)The research participants are described in detail in which section of research plan?
a) Introduction
b) Methodology
c) Results
d) Discussion
- iv)The process of drawing a sample from population is known as
a) Census
b) Sampling
c) Randomization
d) Survey
- v) Which of the following is not a one of the major part of Research paper?
a) Results
b) Abstract
c) Footnotes
d) Discussion

- vi) The group that does not receive the experimental treatment condition is the
- Experimental Group
 - Treatment Group
 - Control Group
 - Both (a) and (b)
- vii) The three aspects of research misconduct are.....
- Plagiarism, Bias and Fabrication
 - Plagiarism, Bias, and Cofounders
 - Falsification, Bias, and Fabrication
 - None of the above
- viii) Snowball Sampling is an example of
- Probability Sampling
 - Non-Probability Sampling
 - Judgemental Sampling
 - Both (a) and (b)
- ix) Case report is an example of
- Analytical Study
 - Descriptive Study
 - Ecological Study
 - None of the above
- x) Mendelley is a software used for
- Data analysis
 - Referencing
 - Data Collection
 - writing research proposal
- xi) Which of the following is an example of non-probability sampling?
- Simple Random Sampling
 - Snowball Sampling
 - Convenience Sampling
 - Both (b) and (c)
- xii) Ethics is a branch of
- Philosophy
 - Social Sciences
 - Statistics
 - Bio-medics

PART - B

Answer any FOUR out of SIX

[4x7=28]

- Write short notes on probability sampling.
- Explain the importance of Ethical Clearance in Research.
- Write short notes on hypothesis.
- Differentiate between Falsification and Fabrication.
- Discuss the problems encountered by researchers in India.
- Explain the criteria of good research.

PART - C

Answer any TWO out of FOUR

[2x15=30]

- Define Plagiarism. What are the different types of plagiarism in research? How the plagiarism can be avoided?
- Explain the research processes with appropriate flowchart
- Write short notes on Experimental study. Differentiate between case report and case series.
- Explain the importance of informed consent in research. Enlist the principle of Declaration of Helsinki.



6th Semester End Term Examination: MAY - 2023.

Subject

: Binocular Vision II

Course

: B.Optomety

Full Marks

: 50

Roll No:

Time : 2 Hours.

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PART - A

Multiple Choice Questions

[10x1=10]

- 1.i) Red Filter treatment is advocated in.
- a) Convergence insufficiency
 - b) Convergence excess
 - c) Duane's retraction syndrome
 - d) Amblyopia with eccentric fixation
- ii) Double Maddox Rod Test is generally done to
- a) Measure contrast sensitivity
 - b) Measure angle of squint in cyclophoria
 - c) Assess visual acuity in presence of squint
 - d) Measure corneal thickness
- iii) Titmus test is a test for
- a) Ac: A ratio
 - b) Paralytic squint
 - c) Convergence
 - d) Steropsis
- iv) Accommodative Flipper is used for assessing
- a) PRA & NRA
 - b) Accommodative amplitude
 - c) Accommodative facility
 - d) Presbyopia
- v) In which test Red green goggles are not used?
- a) Duochrome test
 - b) Hess Test
 - c) Diplopia charting test
 - d) Duochrome test

- vi) Hess screen can be used to record
- Primary & secondary deviations
 - Heterophoria
 - Fusion
 - None of these
- vii). Krimsky's corneal reflex test is to measure
- Heterotropia
 - Both (a) and (b)
 - Heterophoria
 - None of these.
- viii). In park 3-step test we can evaluate
- paretic cyclovertical muscle
 - paretic horizontal muscle
 - secondary charges after paresis
 - none of these
- ix) In unharmonious ARC
- subjective angle is less than objective angle
 - subjective angle is greater than objective angle
 - subjective angle is equal to objective angle
 - subjective angle is zero
- x) In Hirschberg test corneal reflex is at pupil margin nasally. Strabismus is
- 15° esotropia
 - 30° exotropia
 - 30° Δ exotropia
 - none of these.

PART - B

Answer any FOUR out of SIX

[4x5=20]

- Differentiate between comitant squint and non-comitant squint.
- Write the steps involved in Bielowsky head tilt test.
- Write a short note on Hess Screen.
- Briefly explain the therapeutic uses of Synaptophore.
- Define i) Pannums fusional area. ii) Egocentric visual direction
- iii) Corresponding retinal points.
- Write a short note on suppression.

PART - C

Answer any TWO out of FOUR

[2x10=20]

- Differentiate between Diplopia and confusion. Write the steps of Diplopia charting and the conclusive interpretations.
- Briefly describe the clinical presentations in
 - A pattern
 - V pattern
- What is Amblyopia? Briefly describe any 4 amblyopia therapies.
- Write an essay on convergent squint.



2215
6th Semester End Term Examination: MAY- 2023.

Subject : Contact Lens II
Course : B.Optomety
Full Marks : 50

Roll No:
Time : 2 Hours.

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PART - A

Multiple Choice Questions

[10x1=10]

- I. i) The component of care and maintenance
- a) Daily cleaner
 - b) Rinsing solution
 - c) Lubricants
 - d) All of the above
- ii) Purpose of care and maintenance
- a) Clean lenses and goof comfort
 - b) Good vision
 - c) Safe lens wear
 - d) All of the above
- iii) Wearing SCL lens should provide
- a) Good visual acuity
 - b) No ocular insult.
 - c) No facial appearance
 - d) All of the above
- iv) The degree of fluorescein pooling can be graded as
- a) Slightly steep
 - b) Steep
 - c) Very steep
 - d) All of the above
- v) Ideal lens movement during fitting assessment will be
- a) Smooth
 - b) Rocky
 - c) Apical
 - d) All of the above
- vi) Oxygen permeability is a
- a) Material property
 - b) Optical property
 - c) Lens property
 - d) None of the above

- vii) The ideal contact lens material must have
- Durability
 - Optical transparency
- viii) Who can be considered father contact lens
- L. Da Vinci
 - Thomas Young
- ix) Preliminary measures of for RGP
- HVID
 - Lid tonicity
- x) EDTA is a example of
- Chelating agent
 - Cleaning agent
- Stability
 - All of the above
- Sir John Herschel
 - Adolf e Fick
- Radius of curvature
 - All of the above
- Wetting agent
 - None

PART - B

Answer any FOUR out of SIX

[4x5=20]

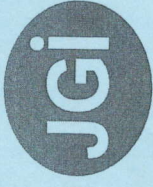
- Difference between RGP and SCL
- Advantages of contact lens over spectacles
- Presbyopia management with contact lens
- Ortho K Lens
- Importance of tear film in contact lens
- Spin casting method of SCL manufacturing

PART - C

Answer any TWO out of FOUR

[2x10=20]

- Describe the fitting philosophies of SCL
- Describe prosthetic contact lenses
- Discuss the various materials of SCL
- Discuss common handling techniques of contact lenses



ARKAJAIN
University
Jharkhand

6th Semester End Term Examination: MAY- 2023.

Subject

: Practice Management

Course

: B. OPTOMETRY

Full Marks

: 70

Roll No:

Time : 3 Hours.

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PART - A

Multiple Choice Questions

[12x1=12]

- (i) Full form of VED analysis
 - a) Vital Essential Desirable
 - b) Vital Effective Desirable
 - c) Virtual Effective Desirable
 - d) Vital Effective Decision
- ii) Which of the following is an internal source of recruitment?
 - a) Transfer
 - b) Advertising on television
 - c) Casual callers
 - d) Labour contractors
- iii) How many heads of income are there to compute Gross Total Income of an assessee?
 - a) Three
 - b) Four
 - c) Five
 - d) Six
- iv) When Income Tax was levied in India first time?
 - a) 1860
 - b) 1886
 - c) 1918
 - d) 1961
- v) Sum of various heads of income is called:
 - a) Gross total income
 - b) Total income
 - c) Taxable income
 - d) Aggregate income

- b) Separate legal entity
- c) Accrual Concept
- d) ABC Analysis
- e) Full Disclosure Concept
- f) Money Measurement Concept

- vi) According to which accounting concept the owner and business are to be treated separate?
 - a) Accrual
 - b) Historical Cost
 - c) Business Entity
 - d) Dual Aspect
- vii) According to which concept, life of the business is uncertain and it is started with an intention that it will continue to exist for a long and unidentified period of time?
 - a) Business Entity
 - b) Going Concern
 - c) Historical Cost
 - d) Accrual
- viii) Outstanding expenses are accounted in the books of accounts due to which accounting concept?
 - a) Going Concern
 - b) Accrual
 - c) Revenue recognition
 - d) Business entity
- ix) Which of the following is not concerned with staffing?
 - a) Recruitment
 - b) Selection
 - c) Training
 - d) Publicity
- x) Which of the following is not a process of selection?
 - a) Testing
 - b) Checking references
 - c) Attitude formation
 - d) Medical examination
- xi) ABC analysis is based on which principle
 - a) Pareto Principle
 - b) Retro Principle
 - c) Both a and b
 - d) None of the above
- xii) Which is not the function of Practice Manager?
 - a) Appointment Scheduling
 - b) Organizing Patient Data
 - c) Hold Regular Meetings
 - d) Providing food to patient

PART - B

Answer any FOUR out of SIX

[4x7=28]

2. What are the responsibilities of Practice Manager?
3. What do you mean by Accounting?
4. What do you mean by Tax Evasion and Tax Planning?
5. Write down the Cultural issues in the healthcare environment.
6. What do you mean by personal values?
7. Write down the important work of Practice Manager.

PART - C

Answer any TWO out of FOUR

[2x15=30]

8. Write Your Business Plan. Just like every other type of business, related to your optometry practice.
9. What do you mean by Recruitment, Selection and Training & Development?
10. What do you mean by optimal optical inventory?
11. Write short notes on following terms:-