

6th Semester End Term Examination: 2021-22.

| Subject | : Research Project | | |
|---------|--------------------|--|--|
| Course | : B. Optometry | | |

Full Marks

Roll No:

57

: 70

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 10 multiple choice questions.
- Part- B containing EIGHT questions out of which SIX questions are to be answered.
- Part C containing FOUR questions out of which THREE questions are to be answered.
- Do not write anything except your Roll No. on the question paper.
- Possession of Mobile Phones or any kind of Written Material, Arguments with the Invigilator or Discussing with Co-Student will comes under Unfair Means and will **Result** in the **Cancellation of the Papers**.

PART - A

Multiple Choice Questions

[10x1=10]

1. The data of research is a) Qualitative Only b) Both a & b c) Qualitative Only d) Neither a nor b 2. At the start of each research project a researcher must decide on: a) How many participants to include.

c) What research question will be answered

- 3. Research is related with a) Discovery of new idea
 - c) Solution of a problem
- 4. Which one is called non-probability sampling? a) Quota sampling c) Cluster sampling
- 5. Research is

- b) The journal the report will be published in.
- d) How many books to order from the library
- b) Investigation of a problem
- d) All the above
- b) Systematic sampling
- d) Stratified random sampling

a) Searching again and again

- c) Finding solution to any problem
- 6. Last stage of research process is
 - a) Review of literature
 - c) Report writing
- d) Analysis of data 7. A Statement that introduces a research question and proposes an expected result is called
 - a) Research Process
 - c) Research Design
- d) Literature Review 8. Cluster sampling, stratified sampling and systematic sampling are types of a) Direct Sampling b) Indirect Sampling
 - c) Random Sampling
- 9. The T in PICOT criteria of research stands for a) Time
- c) Turbulence
- 10. Calculating average, percentages, mean, median and mode are all a) Predictive analytics
 - c) Inferential analytics

PART – B

Answer any SIX out of EIGHT

- 1. Explain the criteria of a good research.
- 2. Draw the research process flow chart
- 3. What is a case series? Explain with an example
- 4. What are the disadvantages of non-probability sampling?
- 5. Write short note on hypothesis.
- 6. Explain what plagiarism is?
- 7. Write the difference between manuscript and thesis.
- 8. Explain the importance of informed consent in research process.

PART - C

Answer any THREE out of FOUR

- 1. What is probability sampling and non- probability sampling. Explain the lottery method with the help of an example
- 2. What is a case control study? Write down the advantages and disadvantages of case control study.
- 3. What is a research proposal. Explain the structure of a research proposal
- 4. What is stratified sampling? What are its advantages and disadvantages?

[3x10=30]

[6x5=30]

b) Working in a scientific way to search for truth of any

problem

b) Hypothesis

b) Treatment

d) None of the above

d) Non Random sampling

d) None of the above

b) Descriptive analytics

d) Mechanistics analytics

b) Research design



6th Semester End Term Examination: 2021-22.

Subject

: Medical Law & Ethics

Course **Full Marks** : B. Optometry

Roll No: Time : 3 Hours.

Instructions to the Candidates:

: 70

Multiple Choice Questions

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PART - A

[10x1=10]1. Patients have the decision to take their own decision; it is termed as a) Consensual b) Autonomy c) Beneficence d) Just 2. Indian Medical Council Act was constituted in the year a) 1999 b) 1918 c) 1956 d) 1899 is the wilful absence of care in the treatment of a patient which may cause 3. bodily harm or death a) Professional negligence b) Jeopardy c) Professional secrecy d) Euthanasia 4. Euthanasia comes from two Greek words "Eu" and "Thanatosis" meaning a) Bad life b) Poor survival c) Good death d) Great revival 5. The oath taken by the doctors is called_ a) Socrates' oath b) Plato's oath c) Hippocratic oath d) Herophilos' oath

| a) True | b) False |
|---|-------------------------------------|
| " " means actual and/or ph | ysical damage to tangible property. |
| a) Damage | b) Insurance |
| c) Accident | d) Perjury |
| 3. MK Media stands for | |
| a) McKarey Kaufman | b) Macullum Krisby |
| c) Methamphetamine potassium | d) None of the above |
| 9. Artificial corneal fitting is called | |
| a) Keratoplasty | b) Keratography |
| c) Pseudo keratotomy | d) Keratoprosthetics |
| 10. HIPAA was passed in the year | |
| a) 1994 | b) 1992 |
| c) 1996 | d) 1991 |

Answer any SIX out of EIGHT

[6x5=30]

[3x10=30]

1. What are consumer rights? Write the basic consumer rights

2. What are the implied promises made by the traders to their clients?

3. Differentiate between professional negligence and medical malpractice

PART - B

4. HIPAA

5. Describe the basic principles of ethics.

6. Elicit the duties of any medical practitioner towards patients

7. Differentiate between civil law and criminal law

8. Write a short note on code of ethics.

PART - C

Answer any THREE out of FOUR

1. Elaborate on informed consent with relevance to your clinical practice.

2. Explain Euthanasia and categorize the types.

- 3. State the difference between medical law and medical ethics. State the Indian Medical Act. Write the stepwise framework of how ethical analysis and decision making is done.
- 4. Elaborate on non-maleficence and beneficence in terms of your clinical practice.

ARKAJAIN University Jharkhand

6th Semester End Term Examination: 2021-22. : Occupational Optometry

Subject Course **Full Marks**

: B. Optometry : 70

Roll No: Time : 3 Hours.

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PART - A

Multiple Choice Questions

[10x1=10]

- 1. Which of the following is not a hazard of UV radiation? a) Miosis b) Photophthalmia c) Cataract d) Pterygium 2. Asthenopia symptoms include a) Fatigue b) Nausea c) Headache d) All of these 3. Asthenopia symptoms is caused by a) Convergence abnormalities b) Both of these c) Headache d) None of these 4. suffer from asthenopic symptoms of a) 10% b) 30% c) 20% d) 40% 5. Ocular status includes a) Minor refractive b) Convergence insufficiency c) Astigmatism d) All of these
- 6. Stress can increase the risk of CVS a) True

b) False

| Workstation design includes | 7. | Wor | kstation | design | includes |
|---|----|-----|----------|--------|----------|
|---|----|-----|----------|--------|----------|

a) Lighting

- c) Glare
- 8. Glare is caused by
 - a) Shadow

c) Pen torch

9. To reduce glare

a) Position VDU away from windows c) Window adjustment

- 10. To eliminate screen reflection use
 - a) Filter Panel
 - c) ARC coating

b) Visual displayd) All of these

b) Bright source of lightd) None of these

b) Use filtersd) All of these

b) All of thesed) None of these

PART – B

Answer any SIX out of EIGHT

[6x5=30]

[3x10=30]

- 1. Define occupational hygiene and the different components of it.
- 2. Explain how colour coding helps in various work places.
- 3. State the Factories' law
- 4. Explain visual demands in sports in brief with a few examples
- 5. What are the characteristics of a good protective equipment, briefly explain?
- 6. How workstation adjustments can reduce glare?
- 7. Explain vision specific standards and preventive measure in fire crew.
- 8. Write the objectives of MOLE.

PART - C

Answer any THREE out of FOUR

- 1. What are VDUs? Explain the repercussions of prolonged usage of VDUs. Elaborate on how to prevent eyes from CVS?
- 2. What is the electromagnetic spectrum composed of? Name the various radiations and their effect on human health, specifically the eyes.
- 3. Elaborate on the occurrence of ocular injuries and hazards. Categorize the types of ocular injury.
- 4. What is industry-based vision screening? What is visual task analysis? With reference to the following sports, explain the visual needs
 - a. Swimming
 - b. Rifle shooting

JGI ARKAJAIN University Jharkhand

6th Semester End Term Examination: 2021-22.

Subject: Practice ManagementCourse: B. OptometryFull Marks: 70

Roll No: Time : 3 Hours.

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<u>PART – A</u>

Multiple Choice Questions

- 1. ABC analysis is based on which principle a) Pareto Principle b) Retro Principle c) Both A & B d) None of the above 2. Which is not the function of practice manager? a) Appointment Scheduling b) Organizing Patient Data c) Hold Regular Meetings d) Providing food to patient 3. How many heads of income are there to compute gross total income of an assesse? a) Three b) Four c) Five d) Six 4. When Income Tax was levied in India first time? a) In 1860 b) In 1886 c) In 1918 d) In 1961 5. Sum of various heads of income is called a) Gross total income b) Total income c) Taxable income
- c) Taxable incomed) Aggregate income6. According to which accounting concept the owner and business are to be treated separate?

[10x1=10]

b) Historical Cost a) Accrual d) Dual Aspect c) Business Entity 7. According to which concept, life of the business is uncertain and it is started with an intention that it will continue the exist for a long and unidentified period of time? b) Going Concern a) Business Entity d) Accrual c) Historical cost 8. Outstanding expenses are accounted in the books of accounts due to which accounting concept? b) Accrual a) Going Concern d) Business entity c) Revenue recognition 9. Which of the following is not concerned with staffing? b) Selection a) Recruitment d) Publicity c) Training 10. Which of the following is not a process of selection?

- a) Testing
- c) Attitude formation

PART - B

Answer any SIX out of EIGHT

- 1. What are the responsibilities of Practice Manager?
- 2. Write down the important work of Practice Manager.
- 3. What do you mean by personal values?
- 4. Write down the Cultural issues in the healthcare environment.
- 5. What do you mean by Tax Evasion and Tax Planning
- 6. What do you mean by Book-keeping.
- 7. Discuss the external sources of recruitment.

8. What do you mean by ethical and moral values of practices manager.

PART - C

Answer any THREE out of FOUR

- 1. Write your Business plan, just like every other type of business, related to your optometry practice. Sec. 30
- 2. What do you mean by Recruitment, Selection and Training & Development.
- 3. What do you mean by optimal optical inventory?
- 4. Write short notes on following terms:
 - a) Going concern concept
 - b) Separate legal entity
 - c) Accrual Concept
 - d) ABC Analysis
 - e) Full Disclosure Concept
 - f) Money Measurement Concept

[6x5=30]

b) Checking references

d) Medical examination

[3x10=30]

| Guide character Examination: 2021-22. Contraction: The Community Optiometry Rel Not. Contraction: The Community Optiometry Rel Not. Contraction: The Community Optiometry Rel Not. Contraction: The Contraction: Contraction: Contraction: The Contraction: Co | | dG University Jharkhand | Z |
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| PART – A b) Retinol b) Retinol d) All of the abo b) Right to Visio d) So that all ma puela in b) No coccerciasis d) So that all ma d) So that all ma d) So that all ma cate b) Oncocerciasis d) Xerophthalm cate b) Avoidable bli d) Hemianopia than one disease is screened at a single site b) Multi Phasic ments truly define community Based Reha | Possessio the Invig and will F | n of <u>Mobile Phones</u> or any kind of <u>Written N</u> <u>lator or Discussing with Co-Student</u> will co cesult in the Cancellation of the Papers. | Material, Arguments with omes under <u>Unfair Means</u> |
| b) Retinol b) Retinol d) All of the abo d) All of the abo b) Right to Visio d) So that all ma d) So that all ma b) Oncocerciasis d) Xerophthalm cate b) Avoidable bli d) Hemianopia than one disease is screened at a single site b) Multi Screeni d) Multi Phasic ments truly define community Based Reha | | PART - A | |
| 1. Vitamin A has b) Retinol a) Thiamine b) Retinol c) Niacin b) Retinol c) Niacin b) Right to Slight c) The tagline of vision 2020 is b) Right to Vision a) Right to slight b) Right to Vision c) Vision for everyone b) Right to Vision c) Vision for everyone b) Right to Vision c) Vision for everyone b) Right to Vision d) Conjunctival xerosis is a sequela in b) Right to Vision a) Trachoma b) Netocerciasis d) Trachoma b) Notocerciasis d) All of the above b) Avoidable blindness c) DR b) Avoidable blindness c) Multi Programmed b) Multi Screening f) Multi Structured b) Multi Phasic 6. Which of the following statements truly define community Based Rehabilitation? | Multiple Choic | | [10x1=10] |
| a) Thiamine b) Retinol c) Niacin d) All of the above c) The tagline of vision 2020 is d) All of the above 2. The tagline of vision 2020 is b) Right to Vision 3. Right to slight b) Right to Vision (c) Vision for everyone b) Right to Vision 3. Conjunctival xerosis is a sequela in b) Oncocerciasis a) Trachoma b) Oncocerciasis (c) DR b) Chocerciasis 4. Vision 2020 targets to eradicate b) Avoidable blindness (c) Malaria b) Avoidable blindness (c) Multi Programmed b) Multi Screening (c) Multi Structured (d) Multi Phasic 6. Which of the following statements truly define community Based Rehabilitation? | 1. Vitamin A has | | |
| c) Niacin d) All of the above 2. The tagline of vision 2020 is b) Right to Vision 3. Right to slight b) Right to Vision (c) Vision for everyone d) So that all may see 3. Conjunctival xerosis is a sequela in b) Oncocerciasis a) Trachoma b) Conjunctival 3. Conjunctival xerosis is a sequela in b) Oncocerciasis 4. Vision 2020 targets to eradicate b) Oncocerciasis 4. Vision 2020 targets to eradicate b) Avoidable blindness a) Cholera b) Avoidable blindness a) Multi Programmed b) Multi Screening c) Multi Structured b) Multi Phasic 6. Which of the following statements truly define community Based Rehabilitation? | a) Thiamine | b) Rei | etinol |
| a) Right to slight b) Right to Vision c) Vision for everyone d) So that all may see a) Trachoma b) Oncoerciasis d) Se ophthalmia b) Oncoerciasis d) Secophthalmia 4. Vision 2020 targets to eradicate b) Avoidable blindness c) Malaria b) Avoidable blindness d) Hemianopia c) Multi Programmed b) Multi Screening c) Multi Structured d) Multi Programmed d) Multi Prasic | c) Niacin 2 The faoline of | | II of the above |
| c) Vision for everyone d) So that all may see 3. Conjunctival xerosis is a sequela in a) Trachoma b) Oncocerciasis c) DR d) Xerophthalmia 4. Vision 2020 targets to eradicate b) Avoidable blindness c) Malaria b) Multi Programmed c) Multi Programmed b) Multi Programmed c) Multi Structured d) Multi Phasic 6. Which of the following statements truly define community Based Rehabilitation? | a) Right to slig | | ight to Vision |
| Conjunctival xerosis is a sequela in Trachoma Trachoma Trachoma DR Vision 2020 targets to eradicate Vision 2020 targets to eradicate Multi Programmed Multi Programmed Multi Structured Which of the following statements truly define community Based Rehabilitation? | | | o that all may see |
| a) Irachoma b) Oncocerciasis c) DR d) Xerophthalmia 4: Vision 2020 targets to eradicate d) Xerophthalmia 5: | | | |
| 4: Vision 2020 targets to eradicate | a) Irachoma | b) Un A) Ya | ncocerciasis |
| a) Cholera b) Avoidable blindness c) Malaria b) Hemianopia d) Hemianopia d) Hemianopia d) Hemianopia d) Hemianopia b) Multi Streening c) Multi Structured d) Multi Phasic 6. Which of the following statements truly define community Based Rehabilitation? | 4: Vision 2020 ta | | |
| c) Malaria d) Hemianopia 5 | a) Cholera | | voidable blindness |
| 5 is when more than one disease is screened at a single site a) Multi Programmed b) Multi Screening c) Multi Structured d) Multi Phasic 6. Which of the following statements truly define community Based Rehabilitation? | c) Malaria | d) He | emianopia |
| a) Multi Programmed c) Multi Structured 6. Which of the following statements truly define community Based Rehabilitation? | | nore than one disease is screene | a single site |
| 6. Which of the following statements truly define community Based Rehabilitation? | a) Multi Frogr | ed | fulti Screening |
| | 6. Which of the fo | llowing statements truly define community I | Based Rehabilitation? |

The art and science of preventing promoting health through the disease, prolonging life and organized efforts of society a)

opportunities and social inclusion of

all people with disabilities

community development for the

Strategy between general

(q

rehabilitation, equalization of

Unpaid work that benefits people

(p

and organizations in the

community

share interests and have a sense of territorial base; those in the group A social group with a common belonging to the group ()

7. IAPB stands for -

- d) International Agency for the **Preventable of Blindness** a) Indian Association for Protection against Blindness b) Institute Against c) Institute Against Preventable Blindness
 - d) Community health workers **Prevention of Blindness** should perform the initial screening in school screening programs b) Teachers 9. Which of the following are principles of Public Health? a) Ophthalmic surgeons c) Optometrists 8
 - d) Employment b) Prevention c) Both a & b a) Equity
- 10. The act of looking at the actual cause of a disease rather that following the features after a disease has manifested is called
 - a) Upstream approach
 - c) Susceptibility

b) Downstream approach d) Health Promotion [6x5=30]

Answer any SIX out of EIGH1

PART - B

- 1. Explain the different phases of prevention
- 2. Discuss the following as health determinants in public health concept
 - a. Environment quality
- b. Lifestyle
- 3. Compare the previous and current health concepts 4. Elicit the importance of screening ocular diseases

 - 5. Write the objectives of Vision 2020.
- 6. Elicit the various criteria that any screening tests should meet in a screening program
 - 7. community based rehabilitation
- Explain how vision and ocular status is of utmost priority in primary health care check-up. 8

PART - C Answer any THREE out of FOUR

[3x10=30]

- 1. What is the significance of vitamin A in ocular physiology? Discuss the sequelae of vitamin A deficiency as per WHO standards. What do vitamin A prophylaxis approach involve?
- 2. Write an essay on vision screening in schools elaborating on the significance of refractive error and amblyopia in the school going age group.

- 3. Discuss how to manage the manpower and human resources in community optometry.
- 4. Why is it important to screen cataract patients in the outreach community? Name a few organizations that support cataract screening and surgery

| Subject Binocular Vision Subject | Instructions to the Candidates: Read the question paper very carefulty. Start writing from 2nd page onwards; <u>Don't Write On The 1st Page Backside</u>. Start writing from 2nd page onwards; <u>Don't Write On The 1st Page Backside</u>. Bat-A is 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. Do not write anything except your Roll No. on the question paper. Part C containing FOUR questions out of which TWO questions are to be answered. Do not write anything except your Roll No. on the question paper. Pasession of Mobile Phones or any kind of Written Material, Arguments with the Invigilator or Discussing with Co-Student will comes under <u>Unfair Means</u> and will <u>Result</u> in the <u>Cancellation of the Papers</u>. Invisilator or Discussing with Co-Student will comes under <u>Unfair Means</u> and will <u>Result</u> in the <u>Cancellation of the Papers</u>. Invisilator or Discussing with Co-Student will comes under <u>Unfair Means</u> and will <u>Result</u> in the primary provide the Invisilator or Discussing with Co-Student will comes under <u>Unfair Means</u> and will <u>Result</u> in the following and the network and down and the Infair Means and and down and the following are extra ocular muscle of eye except: Superior rectus Sup | |
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| | | |

TANGITU

- 1. Write in brief about the importance of history taking in Orthoptics.
 - 2. Write in brief about essential infantile esotropia.
- 3. Explain about Prism bar cover test and Remy Separator.
 - 4. Investigation and management of A& V pattern.
 - Explain about Duane's Retraction Syndrome.
 Write the significance of Diplopia charting.

PART - C

Answer any TWO out of FOUR

- 1. Write about the various management of Amblyopia.
- Write about the classification of Strabismus.
 Write about routine Orthoptic examinations.
 Write in brief about divergent strabismus.

6th Semester End Term Examination: 2021-22.

Jharkhand

ARKAJAIN University

Subject : Contact Lens II Course

Roll No:

: B. Optometry

Full Marks : 50

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 10 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.
- Do not write anything except your Roll No. on the question paper.
- Possession of Mobile Phones or any kind of Written Material, Arguments with . the Invigilator or Discussing with Co-Student will comes under Unfair Means and will **Result** in the **Cancellation of the Papers**.

PART - A

[10x1=10]

- 1. HEMA (Hydroxy ethyl methacrylate) belongs to the under FDA classification
 - a) Group-I
 - c) Group-III
- 2. Normal tear break-up time is a) 10 Seconds

Multiple Choice Ouestions

- c) 45 Seconds
- 3. By push-up test one usually measures a) Fitting of the lens c) Power of the lens
- 4. LARS rule is applied in assessing the fitting of a) Spherical soft contact lens
 - c) Spherical RGP lens
- 5. Tinted contact lens can be given in all except a) Albinism
 - c) Aniridia

- b) Group-II d) Group-IV
- b) 45 Seconds
- d) 15 to 45 Seconds

b) Wettability of the lens

- d) Material property of the lens
- b) Toric soft contact lens
- d) Multifocal lenses
- b) Amblyopia
- d) Keratoconus

- 6. Piggyback-I lens refers toa) Soft over RGPc) Soft over soft
- Enhanced monovision contact lens refers to

 a) Single vision lens in one eye and
 bifocal in the other eye
 - c) Single vision lenses in both eyes
- 8. Therapeutic contact lenses are given in all excepta) Trichiasisc) Post LASIK
- 9. Rose K lenses are mainly used for
 - a) Post LASIK
 - c) High astigmatism
- 10. Keratoconus shows presence of all except a) Munson sign
 - c) Kruk Enberg spindle

i suorise

b) RGP over soft

d) None of these

d) None of these

d) Chalazion

b) Keratoconus d) All of these

b) Vogt's striae

d) All of these

b) Bollus keratopathy

b) Bifocal lenses in both eyes

PART – B

Answer any FOUR out of SIX

- 1. Toric soft contact lens stabilization technique.
- 2. Give the uses of tinted contact lens.
- 3. Write briefly about Hybrid lenses.
- 4. Bifocal contact lens.
- 5. Therapeutic Contact lens
- 6. Write about insertions and removal techniques of soft contact lens.

PART – C

Answer any TWO out of FOUR

[2x10=20]

[4x5=20]

- Find out Contact lens power for following prescriptions (vertex distance = 14 mm)
 - a) -12.00DSPH/-4.00DCYLx90
 - b) +10.00DSPH/-5.00DCYLx135
- 2. What are the prefitting parameters required prior to fitting a contact lens in a child? Briefly describe CL fitting procedure in children.
- 3. Give four advantages of Silicon Hydrogel over Hydrogel contact lenses. Describe with details any two hypoxic complications of soft contact lenses.
- 4. Write about the types of tinted contact lens and their uses. Describe the simultaneous vision contact lens in presbyopia.