



BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, PROMOTED BY GOVERNMENT OF INDIA
CENTRAL BOARD OF EXAMINATIONS
BSS NATIONAL VOCATIONAL EDUCATION MISSION

AHE016-BSS DIPLOMA IN OPTOMETRY

TWO YEARS (FIRST YEAR) EXAMINATION NOV-2015

AHE016-01 COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) I 50 kms everyday
- 2) The tiger A deer
- 3) The cat is the wall.
- 4) 'WH' type word
- 5) I read Indian express
- 6) Hybrid computer is used for
- 7) Mouse is an.....device
- 8) She ran the road
- 9) In Ms Excel individual file is known as
- 10)is the first manual calculating device.

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Define interjection?
- 2) Define definite Article?
- 3) What is meant by plural number? Example:-
- 4) Windows
- 5) Explain any five options for the format 'menu'
- 6) Enter
- 7) Computer
- 8) Decimal
- 9) Insert column and insert chart
- 10) Explain any five options for the format 'menu'

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Explain few sentences using "behind, beneath"?
- 2) Write any two types of job application?
- 3) Windows 98
- 4) Explain Arithmetic logic unit
- 5) Edit
- 6) Print preview
- 7) Title bar
- 8) Substance abuse

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Write a letter to your father asking permission join the N.C.C?
- 2) Write a letter to a sports company ordering some sports goods?
- 3) Briefly explain storage unit
- 4) Write all Internal Commands in dos and explain it.
- 5) Explain 'slide presentation creating' in MS Power Point



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TWO YEARS (FIRST YEAR) EXAMINATION NOV-2015

AHE016-02 ANATOMY & PHYSIOLOGY OF EYE

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) Natural protective mechanisms of conjunctiva include _____
- 2) Vitreous chamber contains a transparent jelly like structure called
- 3) Normal intra ocular pressure varies from tomm of mercury
- 4) separates the corneal epithelium from the substantia propria
- 5) regulates the amount of light entering the eyes.
- 6) Lacrimal gland secretes
- 7) Choroid is
- 8) Night vision is by
- 9) Closure of the Eyelid is by the action of.....
- 10)gland is the Tardal gland

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Nerve supply of conjunctiva
- 2) Anterior & posterior attachment of vitreous
- 3) Parts of ciliary body
- 4) Types of color blindness
- 5) Loss of accommodation leads to
- 6) Lateral rectus, Medial rectus muscle..... eye ball
- 7) Lagophthalmos , ptosis is
- 8) Retina is developed from Mesoderm, Surface ectoderm, Neural ectoderm
- 9) Action of Medial Rectus muscle is Adduction, Abduction, Elevation
- 10) Choroid is part of Choroid is part of

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) The eye at birth
- 2) Structure of conjunctiva
- 3) Function of Cornea
- 4) Blood supply and nerve supply of the conjunctiva
- 5) Cornea
- 6) Accommodation
- 7) Lacrimal Drainage system
- 8) Intraocular muscles

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Nerve supply of the eye
- 2) Structure & nutrition of the corne
- 3) Lacrimal apparatus and describe about lacrimal gland
- 4) Flow of aqueous with diagram
- 5) Cross sections of the eye with figure and function of the parts



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TWO YEARS (FIRST YEAR) EXAMINATION NOV-2015

AHE016-03 BASIC MICROBIOLOGY & PHARMACOLOGY & CLINICAL PATHOLOGY

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) The _____ injection diffuses throughout the entire orbit.
- 2) The most important factor in efficiency of the drug is its power to Penetrate in to _____
- 3) Mycobacterium is _____ bacilli
- 4) Candia is _____
- 5) When the infection causes disease in a particular organ or site
- 6) bacilli cause leprosy
- 7) causes botulism, a severe form of food poisoning
- 8) Bacteria are organism
- 9) Autoclave uses for sterilisation
- 10) Procedures used to free the surface of an article or medium is known as

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Intraocular injection
- 2) Amphotericin B?
- 3) DNA and RMA viruses
- 4) Toxoplasmosis
- 5) Infection
- 6) Fungi
- 7) are examples of virusus causing eye infection
- 8) are media used to grow bacteria for its identification
- 9) Paralysis of Ciliary muscle is caused by Mydriatics, Cycloplegics, Miotics
- 10) Dendritic Keratitis is typically caused by Herpes Zoster virus, Herpes simplex virus, Adenovirus

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Diamox (Acetazolamide)
- 2) Different routes of administration of medicine
- 3) Factors affecting growth of bacteria
- 4) Methods of transmission of infection
- 5) Types of drugs
- 6) Care of medicine cabinet and drugs
- 7) Mydriatic and cycloplegic drugs
- 8) Atropine

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Explain Routes of administration
- 2) Explain Anti-viral Drugs
- 3) Topical anesthesia
- 4) Anti glaucoma drugs
- 5) Uses of local anesthetic in Ophthalmic practice



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TWO YEARS (FIRST YEAR) EXAMINATION NOV-2015

AHE016-04 PHYSIOLOGICAL OPTICS & PRINCIPLES OF REFRACTION

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) Blurring of vision for near work occurs in _____
- 2) Astigmatism is a type of _____
- 3) Optical condition of the eye in which the refraction of the two eyes differs is _____
- 4) Prisms are used in ophthalmology to measure and to treat _____
- 5) Biconvex lens is used in all EXCEPT _____
- 6) If axial length of a eye ball is 20mm the condition is called
- 7) Velocity of light is
- 8) Image formed by concave lenses are
- 9) Trachoma is caused by.....
- 10) Normal I.O.P is.....

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Prism kept base to base and apex to apex forms
- 2) If the object is at principal focus and infinity of a convex lens image will be at
- 3) Myopic astigmatism types
- 4) Two types of convergence
- 5) Uses of prisms
- 6) Iritis typically causes Ciliary congestion, Conjunctival congestion, Diffuse congestion
- 7) Proptosis is Retraction of the eyeball, Drooping of the upper eyelid Protrusion of the eyeball
- 8) Trichiasis is Rolling in of eyelid margin, Rolling out, of lid margin, Distortion of eyelashes
- 9) Keratoplasty is.....
- 10) Corneal vascularisation is called.....

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Pathway of pupillary light reflex
- 2) Anterior chamber depth and content
- 3) Blind Spot
- 4) The Normal field of vision
- 5) The Normal schematic eye
- 6) Optical condition or aphakia
- 7) Mydriatics in Refraction
- 8) Light theory

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Objective Test (Retinoscopy)
- 2) Congenital Dacryocystitis
- 3) Fungal corneal ulcer
- 4) Inflammatory conditions of glands of lid margin
- 5) Management of acute iridocyclitis



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AHE016-BSS DIPLOMA IN OPTOMETRY

TWO YEARS (FIRST YEAR) EXAMINATION NOV-2015

AHE016-05 OPTOMETRIC INSTRUMENTS

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) Von Graefe's knife is used for making _____ surgery.
- 2) Paracentesis needle is used pre cases of non healing corneal ulcer of _____ & hyphopyon associated with raise IOP.
- 3) Eduncleation scissors used to cut _____ during enucleation surgery.
- 4) Chalazion scoop –scoop out the material inside the _____.
- 5) _____ used to support lid and protect eye ball.
- 6) Lensometer is used to find
- 7) Visual acuity is tested by
- 8) Maddox rod is used to find
- 9) Friend test is to find for distant vision
- 10) To remove foreign body is used

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Snellen's Principal
- 2) Gonioscope is used to find
- 3) Prisms are used in
- 4) Two types of Retinoscopy.....
- 5) Example of simple HM astigmatism and compound H.M astigmatism
- 6) Two types of Tonometer
- 7) Synoptophore is used
- 8) Cataract can occur as a complication of Conjunctivitis, Uveitis, Blepharitis
- 9) Morgagnian cataract is.....
- 10) Dislocation of lens occurs in.....

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Trial Frames
- 2) Synaptophore
- 3) A-Scan
- 4) B-Scan
- 5) Hess Screen
- 6) Lensometer
- 7) Perimeter
- 8) Bjerrums screen

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Explain various types of retinoscope (51, 52)
- 2) Kerato meter
- 3) Retinoscopy procedure
- 4) Construction snellens chart
- 5) Low vision aids



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TWO YEARS (FINAL YEAR) EXAMINATION NOV-2015

AHE016-11 CLINICAL OPHTHALMOLOGY

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) The earliest feature of anterior uveitis includes _____
- 2) Black spots floating in front of eyes is a symptom of _____
- 3) Acute dacryoadenitis is an acute inflammation of the gland
- 4) Chronic inflammatory condition of the margin of the lids is known as
- 5) Formation of the opacities in the crystalline lens of the eye is known as
- 6) Cornea is mainly affected by viruses
- 7) Conjunctivitis associated with subconjunctival haemorrhages known as
- 8) Vitreous haemorrhage is the haemorrhage in the
- 9) Abnormal protrusion of the eye ball is known as
- 10) Colour vision is tested by.....chart

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) What is Photoretinitis
- 2) What is Patnogenesis of central Retinal artery occlusion
- 3) Treatment of toxemia of Pregnancy
- 4) Cataract
- 5) Exophthalmos
- 6) Retinal vasculitis
- 7) Outermost layer of Cornea is Bowman's Membrane, Decemet's Membrane, Epithelium
- 8) Choroid is part of Retina, Uvea, Sclera
- 9) KF ring is seen on.....
- 10) Iridodonesis is

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Etiology and treatment of scleritis
- 2) Glaucoma
- 3) Cortical cataract
- 4) Retinitis
- 5) Ophthalmia neonatorum
- 6) Stye
- 7) Surgical management of Pterygium
- 8) Anaesthesia for ocular surgery

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) All about Tobacco Amblyopia
- 2) Comparative study of intra and extracapsular cataract extractions
- 3) Common Topical anti-glaucoma Drugs
- 4) Squint
- 5) Trachoma



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TWO YEARS (FINAL YEAR) EXAMINATION NOV-2015

AHE016-12 PRACTICE OF REFRACTION

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) Retinoscopy is done in a dark room at a distance of _____
- 2) Drug of choice for papillary dilatation in children is _____
- 3) Incident parallel rays come to a focus posterior to the light sensitive layer of retina in _____
- 4) The type of lens used for correction of regular astigmatism includes _____
- 5) Diplopia is a characteristic feature of _____
- 6) In Worth's four dot test the patient has diplopia if he sees _____
- 7) Total ophthalmoplegia is a condition in which there is paralysis of _____
- 8) In concomitant squint _____
- 9) Treatment of esophoria includes _____
- 10) Alternating divergent squint is a form of _____

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Prism
- 2) Postmyriatic Test (PMT)
- 3) Objective Methods to determination of Refraction
- 4) Symptoms & Treatment of Preregular Astigmatism
- 5) Congenital (Developmental) myopia
- 6) Clear Lens extraction & PC IOL
- 7) Etiology of Bilateral amblyopia
- 8) Pupillary reactions (reflexes) direct & indirect
- 9) Principle & Method of radial keratotomy
- 10) Advantages of PRK

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Cylindrical Lens
- 2) Presbyopia
- 3) Advantage & Disadvantages of Spectacles for treatment of Aphakia
- 4) Astigmatism
- 5) Etiology of Ametropia
- 6) Lasik
- 7) Mixed astigmatism
- 8) Cycloplegic refraction

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Principal, Types, Indications, disadvantages & complications of contact lenses
- 2) Retinoscopy
- 3) Hypermetropia – etiology, type, symptoms, signs & treatment
- 4) Sturm's conoid
- 5) Investigations History & Examination for concomitant Squint



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AHE016-BSS DIPLOMA IN OPTOMETRY

TWO YEARS (FINAL YEAR) EXAMINATION NOV-2015

AHE016-13 OPTOMETRY WORKSHOP

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) _____ lenses are those that visibly darkness and fade indefinitely under bright and dull light respectively
- 2) _____ lenses are used to protect the eyes from glare and harmful radiation.
- 3) _____ is an electroic instrument to measure the lens power.
- 4) The most commonly used material for soft lens is _____
- 5) When the lens is thicker at its centre than its edge is called _____. lenses
- 6) A substance or any portion of space through which light can pass is called _____
- 7) When the rays of light passes from one medium to another, some of light is reflected orbent back to the original medium. The phenomenon is known as _____
- 8) A beam of light may be of three different types parallel, Divergent & _____
- 9) While doing the front fitting, attention has to be given to three important things. a) Front inclination, b) Front Alignments, c) Apical curve
- 10) Temple width or the facial width is the distance between the two temporal bones of _____ at a level approximately 25 to 30 mm behind the spectacle plane.

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Crown glass
- 2) Flint glass
- 3) Plastic lens
- 4) Causes of headache with new glasses
- 5) Causes and solution patient complaining of Double vision with the new spectacles
- 6) Causes and suggestions for Bifocal user complaining poor field of vision while Reading
- 7) UV rays
- 8) Refractive media of the Eyeball
- 9) Spherical lenses
- 10) Classification of lenses

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Lensometer
- 2) Lenticular lens grinding
- 3) Spectacle Frame Fittings
- 4) Optical Centre
- 5) Hi-index Glass
- 6) Contact lens manufacturing Techniques

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Final fitting of spectacle
- 2) Explain 5 steps of lens Grinding
- 3) Photochromatic lenses and their features



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TWO YEARS (FINAL YEAR) EXAMINATION NOV-2015

AHE016-14 COMMUNITY OPTOMETRY

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) Cornea is thinned in _____
- 2) Which of the following chemicals is not used for tattooing of corneal opacity _____
- 3) In case of central dense leucoma (5mm) treatment of choice _____
- 4) Blurring of vision for near work occurs in _____
- 5) Cylindrical lenses are prescribed in _____
- 6) Optical condition of the eye in which the refraction of the two eyes differs is _____
- 7) Retinoscopy is done in a dark room at a distance of _____
- 8) Drug of choice for papillary dilatation in children is _____
- 9) The type of lens used for correction of regular astigmatism includes _____
- 10) Prisms are used in ophthalmology to measure and to treat _____

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Common causes Of blindness
- 2) Conjunctival xerosis and Bitot's spot
- 3) Sources of vitamin A
- 4) Indication for cataract extractions
- 5) Anterior capsular cataract and posterior capsular cataract
- 6) Latent squint (Heterophoria) types
- 7) Types of cataract lenses
- 8) Types of hypermetropia
- 9) Contraindications for keratoplasty
- 10) Evalution or Donor Tissue

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Preservation of Donor Eye
- 2) Objective of Eye Bank
- 3) Classification and etiology symptoms of squint
- 4) Binocular single vision
- 5) Classification of blindness in India
- 6) Treatment schedule for xerophthalmia
- 7) Low vision aids

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) National programme for the control of blindness (NPCB)
- 2) Enucleation and contraindications for collection of Donor Eyes
- 3) Etiology, Types, symptoms and Treatment of myopia
- 4) History and examination for Alternating concomitant squint
- 5) All about keratoconus



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TWO YEARS (FINAL YEAR) EXAMINATION NOV-2015

AHE016-15 OPTOMETRY NURSING

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS

1 x 10 = 10

- 1) The most serious danger to vision is _____
- 2) Most important complication of traumatic hyphaema is _____
- 3) Intraocular foreign body with the most fulminant inflammation would be of _____
- 4) Afer cataract is seen after following operations _____
- 5) Intraocular lenses are generally made of _____
- 6) YAG laser is use in the treatment of _____
- 7) Distant direct ophthalmoscopy is done at a distance of _____
- 8) In indirect ophthalmoscopy the image is _____
- 9) Distant vision is recorded at a distance of _____
- 10) Near vision is recorded at a distance of _____

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Grading of chemical injuries
- 2) Open globe injury
- 3) Biometry
- 4) Tono – pen
- 5) Advantage of indirect ophthalmoscope
- 6) Digital Tension & Schiotz Tonometer
- 7) Indication for cataract extraction
- 8) Principle of Automated Perimetry Static, Dynamic, Refractive
- 9) Principle of Automated Perimetry Static, Dynamic, Refractive
- 10) Retinal photocoagulation is done withLASER

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS**5 x 5 = 25**

- 1) Effects of blunt injury on lens, iris, ciliary body, choroids & Retina
- 2) Chalcosis
- 3) Phaco Incision
- 4) Anterior capsulotomy
- 5) Intraocular lens implantation
- 6) Advantages & Disadvantages of contact lens
- 7) Binocular loupe & slit – lamp examination
- 8) Eye donation

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS**15 x 3 = 45**

- 1) Technique of intracapsular cataract extraction (ICCE), Extracapsular cataract extraction (ECCE) & Phacoemulsification
- 2) Central Field (Campimetry)
- 3) Preoperative Preparation for cataract surgery
- 4) Preoperative Investigation for cataract surgery
- 5) Manual small incision cataract surgery