SYLLABUS FOR WRITTEN TEST

POST NAME: TECHNICAL ASSISTANT (PHOTOGRAPHY)

Qualification: 3 Year Diploma in Photography

BASICS OF PHYSICS :

Units and Dimensions – Work, Power and Energy – Electricity & Magnetism.

BASICS OF MATHEMATICS :

Algebra – Trignometry – Co-ordinate Geometry

BASICS OF DIGITAL PHOTOGRAPHY AND FILM PHOTOGRAPHY:

Digital Image formation   - Image Sensors
Digital Camera   - Digital camera types
Composition   - Rules of composition
Types and selection of lenses, filters
Object lighting   - Day light, Artificial light and their combination
Exposure Meter   - Types, function and use
Selection of shutter speed and aperture and ISO
Indoor and Outdoor Photography.

SPECIAL PHOTOGRAPHY:

Macrography, Micrography, High Speed Photography, Infra Red (IR), Ultra Violet (UV) Photography, Strobe light Photography,Multiple exposure.

SCANNERS:

Scanning procedure, Scanning resolution.

PRINTERS:

Different types of print, Proofing, Photo quality printing.

PHOTO COPYING AND SLIDE COPYING:

Stand, Lighting, Cameras, Specification and uses.

BASICS OF COMPUTER:

Windows Operating System
Method of storing and processing digital image
Representation of digital image: Resolution, Pixel Depth, Aspect Ratio, Dynamic Colour Range, File Size, Colour Models, Image Compression, File Formats.

IMAGE EDITING:

Software like Adobe Photoshop etc.
Adjustment of brightness, Contrast, tonal and colour values
Digital retouching & image enhancement
Digital manipulation: applying selective effects to images
Image compression: lossy & non lossy
Fundamentals of digital imaging.

ANIMATION AND SPECIAL EFFECTS:

Animation and special effects
Image manipulation
2D animation using software like Macromedia Flash etc.
3D animation using software like 3D Studio etc.

VIDEOGRAPHY:

Introduction to Television
Video encoding systems and signals
Type of scanning
Basic digital signal processing
Video formats : Analog and Digital (DV family, DV CAM, DVC Pro),
Post production formats
Video streaming.

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