

FINAL ANSWER KEY

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Department	Printing

Question1:-

Name the process of electronically or manually assembling line or halftone negatives or positives in to pages.

A:-

DTP

B:-

Page assembly

C:-

CTP

D:-

Plate making

Correct Answer:- Option-B

Question2:-

Which one is a relief printing process ?

A:-

Flexo

B:-

Offset

C:-

Gravure

D:-

Screen

Correct Answer:- Option-A

Question3:-

Identify the term used for several types of printing that do not require direct contact between an image carrier and the substrate.

A:-

Offset

B:-

Screen

C:-

Intaglio

D:-

NIP

Correct Answer:- Option-D

Question4:-

_____ is the term for printing facilities operated by companies whose business is not the production of printed materials.

A:-

Traditional printing

B:-

Quick printing

C:-

In plant printing

D:-

Trade shops

Correct Answer:- Option-C

Question5:-

_____ printing is a stencil process.

A:-

Gravure

B:-

Digital

C:-

Laser

D:-

Porous

Correct Answer:- Option-D

Question6:-

Identify the parameter for quality check, which is not a densitometry valuations ?

A:-

Density

B:-

Chromatic balance

C:-

Smashes

D:-

Dot gain

Correct Answer:- Option-C

Question7:-

Name the photoelectric device that measures reflectance

A:-

Colourimeter

B:-

Electronic meter

C:-

Densitometer

D:-

Photometer

Correct Answer:- Option-A

Question8:-

_____ is a measuring device used to determine colour values.

A:-

Densitometer

B:-

Spectrophotometer

C:-

pH meter

D:-

Shore durometer

Correct Answer:- Option-B

Question9:-

Identify the quality control device used to detecting slurring of ink.

A:-

Dot gain scale

B:-

Colour control strip

C:-

Star target

D:-

Cross register marks

Correct Answer:- Option-C

Question10:-

The process of dividing the colours of multicoloured original in to the printing primaries and black is called

A:-

Colour separation

B:-

Process colours

C:-

Colour matching

D:-

Colour correction

Correct Answer:- Option-A

Question11:-

Which filler is used to produce magenta printer ?

A:-

Red

B:-

Blue

C:-

Green

D:-

Yellow

Correct Answer:- Option-C

Question12:-

Name the technique used to reduce yellow, cyan and magenta dot percentages in neutral tones by replacing them with increased amount of black ink.

A:-

GCR

B:-

ICI

C:-

BCI

D:-

UCR

Correct Answer:- Option-D

Question13:-

Which is not a process colour in printing ?

A:-

Magenta

B:-

Green

C:-

Yellow

D:-

Black

Correct Answer:- Option-B

Question14:-

A colour gradation created by adding white to a colour is called

A:-

Shade

B:-

Tint

C:-

Grey

D:-

Black

Correct Answer:- Option-B

Question15:-

Name the process involving the use of a specialised machine to transfer an image from an image carrier to a substrate.

A:-

Colour separation

B:-

Plate making

C:-

Printing

D:-

Developing

Correct Answer:- Option-C

Question16:-

Identify the measuring unit for image resolution.

A:-

LPI

B:-

Halftone

C:-

PPI

D:-

DPI

Correct Answer:- **Question Cancelled**

Question17:-

The process of setting up and adjusting a printing press for a particular ink, paper and specifications prior to printing is called

A:-

Make ready

B:-

Premake ready

C:-

Pre press

D:-

Production process

Correct Answer:- Option-A

Question18:-

Identify the step in a premake ready section in an offset printing.

A:-

Gathering

B:-

Collating

C:-

Plate mounting

D:-

Fillet

Correct Answer:- Option-C

Question19:-

Name a print media from the following

A:-

Brochure

B:-

Printer

C:-

DTP

D:-

Roller

Correct Answer:- Option-A

Question20:-

Who invented movable type ?

A:-

Allois senefelder

B:-

Johannes Gutenberg

C:-

Ira Rubel

D:-

Chester Carlson

Correct Answer:- Option-B

Question21:-

Which file format preserves live transparency most reliably for RIP-based e-publishing workflows ?

A:-

EPS

B:-

PDF/X-1a

C:-

PDF/X-4

D:-

TIFF

Correct Answer:- Option-C

Question22:-

In typography, widows and orphans primarily disrupt

A:-

Line justification accuracy

B:-

Typographic color consistency

C:-

Visual continuity of reading flow

D:-

Kerning integrity

Correct Answer:- Option-C

Question23:-

Which wireless technology is primarily designed to replace infrared (IR) and USB 1.1 for short-distance communication (up to 10 meters) between devices like mice, keyboards and handheld computers ?

A:-

IEEE 802.3

B:-

Bluetooth

C:-

WAN

D:-

SCSI

Correct Answer:- Option-B

Question24:-

Which font file format, commonly used in windows environments, specifically contains the "Printer font Binary" data for Type 1 contour fonts ?

A:-

.pfm

B:-

.ttf

C:-

.pfb

D:-

.otf

Correct Answer:- Option-C

Question25:-

what is the primary technical function of Adobe's Extensible Metadata Platform (XMP) within a cross-media publishing workflow ?

A:-

It serves as a replacement for the PostScript language

B:-

It enables files to contain standardized keywords and meta information using XML

C:-

It automates the conversion of RGB data into CMYK during export

D:-

It encrypts PDF files to prevent unauthorized font extraction

Correct Answer:- Option-B

Question26:-

Which CTP design principle utilizes a fast-turning polygon mirror and a Raster Output Scanner (ROS) to image plates line-by-line ?

A:-

Flat-bed system

B:-

Internal drum system

C:-

External drum system

D:-

Capstan system

Correct Answer:- Option-A

Question27:-

In CTP laser technology, what does the abbreviation 'FD-YAG' stand for ?

A:-

Fixed-Diode Yttrium Aluminum Garnet

B:-

Frequency-Doubled Nd: YAG laser

C:-

Fiber-Delivered Yttrium Aluminum Garnet

D:-

Fluorescence-Detection Yttrium Aluminum Garnet

Correct Answer:- Option-B

Question28:-

What technology from Adobe enables files created in Illustrator, Photoshop and InDesign to contain standardized keywords and meta-information ?

A:-

XML

B:-

JDF

C:-

PDF/X

D:-

XMP

Correct Answer:- Option-D

Question29:-

What is the technical definition of a PDF file within a professional print workflow ?

A:-

A rasterized image of the entire layout

B:-

A vector file that requires the original creation application to open

C:-

A text only file with font embedding instructions

D:-

A partly-RIPped file containing a display list of page objects

Correct Answer:- Option-D

Question30:-

Which wavelength is standard for thermal laser diodes used to image 'daylight-handling' CTP plates ?

A:-

351 nm

B:-

532 nm

C:-

830 nm

D:-

1064 nm

Correct Answer:- Option-C

Question31:-

In professional raster editing, which interpolation method is technically superior for maintaining detail when enlarging an image ?

A:-

Nearest Neighbor

B:-

Bilinear

C:-

Bicubic

D:-

Sub-sampling

Correct Answer:- Option-C

Question32:-

Which PDF subset is strictly designed to prohibit the use of transparent objects in a print-ready file ?

A:-

PDF/X-1a

B:-

PDF/X-3

C:-

PDF/X-4

D:-

PDF/A

Correct Answer:- Option-A

Question33:-

What does the "UCR" (Under Color Removal) process specifically target during image separation ?

A:-

Highlight detail

B:-

Neutral shadows

C:-

Saturated midtones

D:-

Total Ink Limit (TIL)

Correct Answer:- Option-B

Question34:-

Which CTP architecture is least susceptible to beam-to-plate distance variations, ensuring consistent focal spot size ?

A:-

Flat-bed

B:-

Internal drum

C:-

External drum

D:-

Capstan

Correct Answer:- Option-B

Question35:-

Which CTP plate imaging method involves spraying a special aqueous ink onto an uncoated, anodized aluminum plate ?

A:-

Thermal Ablation

B:-

Silver Halide Imaging

C:-

Electrography

D:-

Ink Jet Imaging

Correct Answer:- Option-D

Question36:-

The printing phenomenon known as 'Coning' results in which specific registration problem ?

A:-

The printed image in the first component color is wider than the last due to paper compression

B:-

The image on the last plate is larger than the first to compensate for the paper fan-out

C:-

Vertical ghosting appears in solid areas

D:-

Inks fail to trap, leading to poor color mixing

Correct Answer:- Option-A

Question37:-

Typographic "x-height" refers specifically to the vertical distance between which two reference lines ?

A:-

The baseline and the cap height

B:-

The mean line and the ascender line

C:-

The descender line and the ascender

D:-

The baseline and the mean line

Correct Answer:- Option-D

Question38:-

In professional image retouching, what is the specific term for the ability to examine and delete individual pixels to clean up complex outlines or "silo" an image ?

A:-

Vector Masking

B:-

Anti-aliasing

C:-

Pixel Editing

D:-

Interpolation

Correct Answer:- Option-C

Question39:-

Which process is used during the pre-press stage to check high-resolution PDF originals for technical errors like missing fonts or incorrect color spaces before plate imaging ?

A:-

Trapping

B:-

Imposition

C:-

Preflight

D:-

Rasterization

Correct Answer:- Option-C

Question40:-

Which font format uses "Hinting" instructions to improve legibility on low-resolution output devices ?

A:-

PostScript Type I

B:-

TrueType

C:-

Bitmapped fonts

D:-

CID fonts

Correct Answer:- Option-B

Question41:-

In planographic printing, the original base on to which the image area and non-image area rested was the limestone slabs of _____ stone, hence the name "lithography".

A:-

Oleophilic

B:-

Kelheim

C:-

Butadiene

D:-

Collimator

Correct Answer:- Option-B

Question42:-

Omit the odd one from the following

A:-

Sand blasting

B:-

Wire brush or marble graining

C:-

Whirling

D:-

Chemical or Electro-chemical method

Correct Answer:- Option-C

Question43:-

As per inverse square law, the illumination of a surface by a point source of light is inversely proportional to the square of the distance from the

A:-

Screen

B:-

Source

C:-

Punch

D:-

None of these

Correct Answer:- Option-B

Question44:-

Before the blanket is punched for mounting, it should be checked for squareness, noting that the wrap threads run parallel with the

A:-

Cylinder bearers

B:-

Gripper

C:-

Undercut

D:-

None of these

Correct Answer:- Option-A

Question45:-

Choose the dampening roller coverings from the following :

- i. Paper
- ii. Molleton fabric
- iii. Stockinette

A:-

ii

B:-

i and ii

C:-

ii and iii

D:-

i, ii and iii

Correct Answer:- Option-D

Question46:-

ACGIH established the _____ value for chemicals used in Graphic Arts Industry.

A:-

Containment

B:-

Threshold Time Limit

C:-

VAT

D:-

None of these

Correct Answer:- Option-B

Question47:-

Paper with internal sizing are said to be

A:-

Hardsized

B:-

Synthesized

C:-

Coated

D:-

None of these

Correct Answer:- Option-A

Question48:-

If the F-factor is 1.48, find the metric basis weight of 50lb offset paper.

A:-

33.78 g/sq.m

B:-

77.5 g/sq.m

C:-

74 g/sq.m

D:-

50 g/sq.m

Correct Answer:- Option-C

Question49:-

Kaolin is a _____ that are used in papermaking.

A:-

Colorant

B:-

Coolant

C:-

Fuser

D:-

Filler

Correct Answer:- Option-D

Question50:-

Paper with a mirror or glossy finish surface, large volume, mainly white on one side and coloured that are used especially for labels, envelopes and high-quality folding boxes

A:-

Maplitho

B:-

Manila

C:-

Cast-Coated

D:-

Mill stock

Correct Answer:- Option-C

Question51:-

In lithography, the *ink transfer* can take place through :

- i. ink splitting
- ii. direct ink film transfer from a base foil onto the substrate
- iii. pressing the ink through openings

A:-

i

B:-

ii

C:-

iii

D:-

All of the above

Correct Answer:- Option-A

Question52:-

Mixing of two mutually insoluble liquids in which one is dispersed as droplets throughout the other.

A:-

Acceleration

B:-

Polymerisation

C:-

Emulsification

D:-

Anodising

Correct Answer:- Option-C

Question53:-

Weight of paper in the job as kgs/1000 sheets are calculated as

$$\frac{\text{Length (mm)} \times \text{Width (mm)} \times \dots}{10^6}$$

A:-

basis size

B:-

g/sq.m

C:-

satin

D:-

calliper

Correct Answer:- Option-B

Question54:-

Linseed oil in the form of refined and treated oils, also in conjunction with modifying resin or as an integral part of resin is a prime constituent in _____ inks.

A:-

Lithographic

B:-

Flexographic

C:-

Gravure

D:-

None of these

Correct Answer:- Option-A

Question55:-

Slings are the ink defects that arise with _____ of ink.

A:-

Low Pigmentation

B:-

Low Viscosity

C:-

High Viscosity

D:-

High Opacity

Correct Answer:- Option-B

Question56:-

A breakdown of the image areas of the lithographic plate, in which the actual image disappears during the press run.

A:-

Hickies

B:-

Vignette

C:-

Trapping

D:-

Walking off

Correct Answer:- Option-D

Question57:-

A term used to describe those operations which are performed before a fresh job is done on a press and which may be unrelated to any particular type of work connected with the fresh job.

A:-

Makeready

B:-

Preflighting

C:-

Premakeready

D:-

Registration

Correct Answer:- Option-C

Question58:-

The printability of an offset lithographic plate fundamentally depends on the contrasting surface characteristics of image and non-image areas. Which of the following combinations most accurately explains this principle ?

A:-

Image areas exhibit high water receptivity and low ink affinity, while non-image areas show high ink receptivity due to surface roughness

B:-

Image areas possess oleophilic properties enabling selective ink acceptance, whereas non-image areas are hydrophilic, allowing moisture retention and ink repulsion

C:-

Printability is governed by equal ink and water receptivity in both image and non-image areas, controlled primarily by mechanical pressure during printing

D:-

Image areas rely on mechanical engraving for ink transfer, while non-image areas depend on chemical etching to repel both ink and water

Correct Answer:- Option-B

Question59:-

Which of the following sets of factors most directly influences ink film gloss and uniformity ?

A:-

Printing pressure, ink drying temperature and mechanical wear of rollers

B:-

Ink viscosity, ink film thickness and surface absorbency of the substrate

C:-

Plate material blanket hardness and feeder mechanism accuracy

D:-

Impression cylinder diameter, press speed variation and sheet gripper design

Correct Answer:- Option-B

Question60:-

Which of the following correctly represents the standard dimensions of RA0 size ?

A:-

841 × 1189 mm

B:-

880 × 1230 mm

C:-

860 × 1220 mm

D:-

900 X1280 mm

Correct Answer:- Option-C

Question61:-

GAA stands for

A:-

Gravure Automation Agency

B:-

Gravure Association of America

C:-

Graphic Arts Association

D:-

Global Advertising Association

Correct Answer:- Option-B

Question62:-

PIV gear system is mainly used for

A:-

Fixed speed transmission

B:-

Variable speed transmission

C:-

High torque transmission only

D:-

Direction change

Correct Answer:- Option-B

Question63:-

Electroformed screens used in screen printing are primarily manufactured from

A:-
Stainless steel

B:-
Brass alloy

C:-
Nickel

D:-
Aluminium

Correct Answer:- Option-C

Question64:-
In screen-printed spot varnishing, the varnish is applied

A:-
Before printing the image

B:-
Simultaneously with offset printing

C:-
During paper manufacturing

D:-
After printing as a surface finishing operation

Correct Answer:- Option-D

Question65:-
The quality of a fabric is primarily determined by

A:-
The colour of the yarn

B:-
The weaving speed

C:-
The thread thickness used

D:-

The finishing chemicals applied

Correct Answer:- Option-C

Question66:-

In the thin layer method, the base copper layer is coated with an engravable copper layer of approximately

A:-

80 μm

B:-

40 μm

C:-

20 μm

D:-

200 μm

Correct Answer:- Option-A

Question67:-

The shore hardness of the rubber layer used for an impression roller covering is approximately

A:-

95 Shore A

B:-

55 Shore A

C:-

60 Shore A

D:-

120 Shore A

Correct Answer:- Option-A

Question68:-

The printing process now known as flexography was previously called

A:-

Anilox printing

B:-

Intaglio printing

C:-

Aniline printing

D:-

Planographic printing

Correct Answer:- Option-C

Question69:-

In sleeve technology, the inside diameter of the sleeve is designed so that it can

A:-

Shrink permanently during mounting

B:-

Be fixed using adhesive

C:-

Expand under compressed air

D:-

Rotate independently of the cylinder

Correct Answer:- Option-C

Question70:-

The main advantage of keeping the substrate on a single large impression cylinder is

A:-

Reduced ink consumption

B:-

Faster ink drying

C:-

Lower printing pressure

D:-

Maximum positional stability and accurate register

Correct Answer:- Option-D

Question71:-

In single-color printing, NIP technologies using powder toners typically produce an ink layer thickness of approximately

A:-

1-2 μm

B:-

3-4 μm

C:-

5-10 μm

D:-

20-30 μm

Correct Answer:- Option-C

Question72:-

The soft magnetic layer on the magnetizable drum is typically made of

A:-

Co-Ni-P alloy

B:-

Ferrite ceramic

C:-

Fe-Ni alloy

D:-

Chromium steel

Correct Answer:- Option-C

Question73:-

The immediate cause of ink droplet ejection in a thermal inkjet nozzle is

A:-

Ink viscosity reduction

B:-

Pressure from compressed air

C:-

Rapid expansion of a vapor bubble

D:-

Ink surface tension increase

Correct Answer:- Option-C

Question74:-

Why is recycled or FSC-certified paper is preferred ?

A:-

It increases printing speed

B:-

It reduces deforestation and ecological impact

C:-

It makes colors brighter

D:-

It is cheaper than all other paper

Correct Answer:- Option-B

Question75:-

Which printing method is often considered greener because it produces less waste and uses less energy ?

A:-

Traditional offset printing

B:-

Digital printing

C:-

Screen printing with harsh chemicals

D:-

Gravure printing

Correct Answer:- Option-B

Question76:-

What is the primary purpose of safety guards in an offset press ?

A:-

To reduce the speed of the press

B:-

To prevent operator contact with moving parts of the machine

C:-

To improve the quality of the press

D:-

To assist the colour correction

Correct Answer:- Option-B

Question77:-

Lubricating the machine is a _____ maintenance task for an offset press.

A:-

Annual

B:-

Emergency

C:-
Sharp

D:-
Routine

Correct Answer:- Option-D

Question78:-

Which of the following is not considered as a safety device on an offset press ?

A:-
Jaws

B:-
Safety light curtains

C:-
Interlock switches

D:-
Two hand control system

Correct Answer:- Option-A

Question79:-

Excessive ink tack can leads to

A:-
Ink running off the page

B:-
Ghosting

C:-
Paper tearing or picking

D:-

Poor image

Correct Answer:- Option-C

Question80:-

The role of pneumatic system of an offset press includes

A:-

To help colour correction

B:-

To control ink and ink temperature

C:-

Operating break system and sheet transfer components

D:-

Regulating ink-water balance

Correct Answer:- Option-C

Question81:-

Name the printing defect that appears as a small irregular spot or ring on the printed surface

A:-

Hickies

B:-

Curling

C:-

Scum

D:-

Set off

Correct Answer:- Option-A

Question82:-

PUR Binding is a _____ type of binding.

A:-

Comb

B:-

Wirestich

C:-

Coptic

D:-

Perfect

Correct Answer:- Option-D

Question83:-

Identify the most durable paper from the following

A:-

Newsprint

B:-

Ledger paper

C:-

Recycled

D:-

Brown

Correct Answer:- Option-B

Question84:-

What is the main difference between rigid boxes and folding cartons ?

A:-

Rigid boxes do not collapse flat

B:-

Folding cartons are made only of metal

C:-

Rigid boxes use water resistant ink

D:-

Folding cartons are not used for premium products

Correct Answer:- Option-A

Question85:-

Identify the printing method which is most commonly used for high quality retail cartons.

A:-

Flexography

B:-

Gravure

C:-

Offset

D:-

Screen

Correct Answer:- Option-C

Question86:-

What is the purpose of a die cutting process in a carton manufacturing ?

A:-

Binding the cartons

B:-

Adding colour

C:-

Cutting shapes and creasing

D:-

Coating plastic

Correct Answer:- Option-C

Question87:-

Spot uv coating in carton printing is used to

A:-

Increase thickness of carton board

B:-

Enhance strength of carton

C:-

Increase ink durability of printed surface

D:-

Highlight specific areas with gloss

Correct Answer:- Option-D

Question88:-

Which type of carton is ideal for electronics or mobile phone packaging ?

A:-

Blister

B:-

Shrink wrap

C:-

Rigid setup box

D:-

Folding carton

Correct Answer:- Option-C

Question89:-

Which of the following finishing process is most suitable for creating tactile effects and visual depth on packaging through controlled ink buildup ?

A:-

Raised uv coating

B:-

Digital varnishing

C:-

Embossing

D:-

Thermal printing

Correct Answer:- Option-A

Question90:-

In library binding, which structural feature is specifically incorporated

A:-

Decorative spine

B:-

PUR binding

C:-

Case binding adhesive

D:-

Sewn signatures with reinforced cloth hinges

Correct Answer:- Option-D

Question91:-

What is the primary functional role of endpapers in hardcover book binding ?

A:-

To increase pages

B:-

To connect book block to the cover and structural support

C:-

Reduce spine thickness

D:-

To support the book cover

Correct Answer:- Option-B

Question92:-

The type of endpaper used for high end books for better adhesion to the case.

A:-

Cloth-reinforced endpaper

B:-

Plain endpaper

C:-

Watermark endpaper

D:-

Kraft endpaper

Correct Answer:- Option-A

Question93:-

How many A4 sheets are required for making 16 pages brochure with saddle stitching ?

A:-

2

B:-

4

C:-

8

D:-

16

Correct Answer:- Option-B

Question94:-

Digitally printed endpapers are commonly used in modern book production why ?

A:-

Only for heavy text books

B:-

As promotional insertion

C:-

For making copyright pages

D:-

To personalise books with illustration on thematic patterns

Correct Answer:- Option-D

Question95:-

Plastic or metal wire is commonly used for which type of binding method

A:-

Wire stitch

B:-

Spiral

C:-

Perfect binding

D:-

Side stitching

Correct Answer:- Option-B

Question96:-

A DC voltage supply provides 30V when the output is unloaded. When connected to an LED strip light output voltage drops to 27 V. The value of voltage regulation is

A:-

Greater than 90%

B:-

Less than 10%

C:-

In between 10% and 25%

D:-

In between 75% to 89%

Correct Answer:- Option-C

Question97:-

The reverse saturation current in semiconductor diode is

A:-

Same as initial value when temperature increases

B:-

Double in every 10^0C increase in temperature

C:-

Half the initial value for every 10^0 increase in temperature

D:-

Directly proportional to temperature

Correct Answer:- Option-B

Question98:-

The mechanical advantage of a machine is the

A:-

Ratio of load lifted to effort applied

B:-

Ratio of output to input

C:-

Ratio of efficiency of machine to input

D:-

Ratio of distance moved by the effort to the distance moved by the load

Correct Answer:- Option-A

Question99:-

Thermocouple made up of joining two dissimilar metals and produces an e.m.f. due to difference in temperature between hot and cold junction. It works on

A:-

Kelvin effect

B:-

Seebeck effect

C:-

Peltier effect

D:-

Thomson effect

Correct Answer:- Option-B

Question100:-

The type of line used to represent centroidal line is

A:-

E type

B:-

G type

C:-

H type

D:-

K type

Correct Answer:- Option-D