

PROVISIONAL ANSWER KEY

Question 94/2024/OL

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Department Printing

Question1:-The test image that shows variation in the amount of Slur and Doubling along its length, when printed around cylinder is _____

A:-UGRA Plate Control Wedge

B:-Ladder Target

C:-Star Target

D:-All of the above

Correct Answer:- Option-B

Question2:-The Surface speed of the Chill rolls is set _____ the surface speed of the web coming out of the press, with no slip cut off system.

A:-more than

B:-less than

C:-in no relationship with

D:-to match exactly

Correct Answer:- Option-D

Question3:-Which of these factors involves web control?

A:-Tension of the web

B:-Length of the web

C:-Modulus of elasticity of web

D:-All of these

Correct Answer:- Option-D

Question4:-Which of these following NIP technology use Ring electrodes?

A:-Toner Jet Printing Technology

B:-Elcography

C:-Electrography

D:-All of these

Correct Answer:- Option-A

Question5:-In thermal sublimation NIP technology, ink is transferred from the donor to the substrate by _____

A:-Diffusion

B:-Evaporation

C:-Thermal mass transfer

D:-None of these

Correct Answer:- Option-A

Question6:-A set of proofs showing each plate of a set printed in its appropriate color and in registered combination to act as a guide for printer

A:-Press proof

B:-Progressive proof

C:-Buleprint

D:-Imposition proof

Correct Answer:- Option-B

Question7:-The use of Intranet technologies to set up link up groups of users together, such as companies with their suppliers called _____

A:-Ethernet

B:-Telnet

C:-Extranet

D:-None of these

Correct Answer:- Option-C

Question8:-In Magnetography, constant magnetic reversal during the hysteresis loop cycle helps in the _____

A:-Re imaging

B:-Formation of latent image

C:-Erasing the magnetic pattern impressed in the imaging head

D:-All of these

Correct Answer:- Option-C

Question9:-'Rip Once Output Many' (R.O.O.M) feature embedded in Prinect software is associated with

A:-Jet base

B:-Meta dimension

C:-Delta technology

D:-Super trap

Correct Answer:- Option-C

Question10:-Enfocus Pitstop server is an example for

A:-Preflight software

B:-Imposition software

C:-Color Conversion software

D:-None of these

Correct Answer:- Option-A

Question11:-Trade bulletin is an example for _____

- A:-Internal house Journal
- B:-External house Journal
- C:-Internal external house Journal
- D:-None

Correct Answer:- Option-B

Question12:-Organisation of Newspaper and Periodicals chiefly concerned with interests of the editorial section of Newspaper industry

- A:-INS
- B:-AINEC
- C:-IFWJ
- D:-IHJ

Correct Answer:- Option-B

Question13:-Any printing operation that is owned by and serves the needs of, a single company or corporation is _____

- A:-Special Purpose printing
- B:-Trade shop
- C:-Commercial printing
- D:-In Plant printing

Correct Answer:- Option-D

Question14:-Measure of rate of production of good copies over a period of time is _____

- A:-Gross running speed
- B:-Metreage per Web break
- C:-Runnability
- D:-Net running speed

Correct Answer:- Option-A

Question15:-Gyricon is an example for

- A:-OLED
- B:-E ink
- C:-Electronic paper
- D:-None of these

Correct Answer:- Option-C

Question16:-Which of the following best describes the literary device "juxtaposition"?

- A:-The use of exaggerated statements to emphasize a point

B:-The arrangement of related or dissimilar objects to establish a relationship between them

C:-The repetition of the same initial consonant sounds in a sequence of words

D:-The attribution of human characteristics to non-human entities

Correct Answer:- Option-B

Question17:-Who is the Swiss typeface designer who created Helvetica?

A:-Paul Renner

B:-Adrian Frutiger

C:-Max Miedinger

D:-Erik Spiekermann

Correct Answer:- Option-C

Question18:-What does the file format PICT stand for?

A:-Picture Interchange Color Technology

B:-Picture Image Compression Technique

C:-Pixel Image Compression Technology

D:-Macintosh Picture

Correct Answer:- Option-D

Question19:-In the context of "razzle dazzle" makeup of a newspaper page, what does it imply about the presentation of news items?

A:-News items are presented in a balanced and organized manner

B:-The front page features most items without evaluating their importance

C:-Only the most important news is highlighted prominently

D:-News items are arranged by category for easier navigation

Correct Answer:- Option-B

Question20:-What does "complementary contrast" refer to in color theory?

A:-The contrast between light and dark shades of the same color

B:-The contrast between colors that are next to each other on the color wheel

C:-The contrast between colors that are opposite each other on the color wheel

D:-The contrast between various shades of gray

Correct Answer:- Option-C

Question21:-What does 'photomontage' allow designers to do?

A:-Create single, static images without any modifications

B:-Combine photographic images to express complex ideas rapidly

C:-Focus solely on text-based designs without images

D:-Use traditional painting techniques to create artwork

Correct Answer:- Option-B

Question22:-What is the primary purpose of a grid in design?

A:-To restrict creativity

B:-To serve as a guideline for element positioning

C:-To limit the use of colors

D:-To create random layouts

Correct Answer:- Option-B

Question23:-What technology do powerful flat-bed scanners use for optimal performance?

A:-UV technology

B:-XY technology

C:-3D technology

D:-Z-axis technology

Correct Answer:- Option-B

Question24:-Why is value considered an important tool in design?

A:-To reduce color usage

B:-To add emphasis and establish visual hierarchy

C:-To simplify the composition

D:-To create uniform color schemes

Correct Answer:- Option-B

Question25:-What does 'antithesis' refer to in the context of ideas or thoughts?

A:-The combination of similar ideas to create unity

B:-The sharp contrast between two opposing ideas to intensify their differences

C:-The gradual transition between related concepts

D:-The repetition of a single idea for emphasis

Correct Answer:- Option-B

Question26:-In the context of the Open Prepress Interface (OPI), when are the high-resolution original data substituted for the low-resolution data?

A:-During the initial design phase

B:-During the printing phase

C:-During the file export phase

D:-During the imaging phase

Correct Answer:- Option-D

Question27:-In the formula for scanning frequency $(fs) = F \times M \times L$ what does 'L' represent?

A:-Scanning resolution

B:-Magnification factor

C:-Screen frequency

D:-Frequency modulation

Correct Answer:- Option-C

Question28:-What is the JPEG File Interchange Format (JFIF) Particularly used for?

A:-Small data sets and personal photography

B:-Large data sets, optimized prepress workflows, and Internet solutions

C:-Vector graphics and animation

D:-Audio and video compression

Correct Answer:- Option-B

Question29:-What does the term "rendering intent", introduced by the ICC, refer to?

A:-The process of converting text to an image format

B:-The specific method chosen for color reproduction depending on the intended purpose

C:-The technique of enhancing image resolution

D:-The adjustment of image brightness and contrast

Correct Answer:- Option-B

Question30:-What is the purpose of creating a layout in the context of gaining a color impression similar to a blueprint?

A:-To ensure color accuracy

B:-To check the contents and position of image elements

C:-To enhance image resolution

D:-To adjust brightness and contrast

Correct Answer:- Option-B

Question31:-Which organization developed the set of standards for the electronic pre-press industry known as Computer Ready Electronic Files (CREF)?

A:-Graphic Communication Association (GCA)

B:-Scitex Graphic Arts Users Association (SGAUA)

C:-Printing Industries of American Inc.

D:-American Institute of Graphic Arts (AIGA)

Correct Answer:- Option-B

Question32:-What does FPO stand for in the context of images used in the layout and design process?

A:-Final Production Output

B:-For Print Only

C:-For Position Only

D:-Fixed Position Overlay

Correct Answer:- Option-C

Question33:-What are crossover design elements in the context of page layout?

- A:-Design elements that cross the edges of the page
- B:-Design elements that cross the gutter of a page
- C:-Design elements that cross the margins of a page
- D:-Design elements that cross the text block of a page

Correct Answer:- Option-B

Question34:-In electronic imposition, what does "bespoke" refer to?

- A:-Standardized templates used for layout
- B:-Custom-designed layouts tailored to specific requirements
- C:-Pre-made layouts used for efficiency
- D:-Dedicated or proprietary electronic imposition/job management systems built into an automated workflow system

Correct Answer:- Option-D

Question35:-What does lossless data compression do?

- A:-Reduces data size by removing some information permanently
- B:-Retains all the information in the original data for perfect reconstruction
- C:-Achieves high compression ratios over 10:1
- D:-Introduces slight deterioration in the data for better compression

Correct Answer:- Option-B

Question36:-Which of the following is used to measure light fastness?

- A:-Densitometer
- B:-Blue wool scale
- C:-Fastness tester
- D:-Grey wool scale

Correct Answer:- Option-B

Question37:-1°dH corresponds to

- A:-10 mg/L of CaO
- B:-10 mg/L of $CaCO_3$
- C:-100 mg/L of $CaNO_2$
- D:-10 mg/L of Ca

Correct Answer:- Option-A

Question38:-Corrosion inhibitors used in the dampening solution is

- A:-Manganese nitrate
- B:-Acetic acid
- C:-Chloride
- D:-Magnesium Nitrate

Correct Answer:- Option-D

Question39:-In multimetal plates which metal used for image areas

A:-Cromium

B:-Aluminium

C:-Copper

D:-None of the above

Correct Answer:- Option-C

Question40:-The first ever paper was made from

A:-Bamboo and Banana leaf

B:-Mulberry bark and Hemp

C:-Banana leaf

D:-Hemp and Bamboo

Correct Answer:- Option-B

Question41:-Paper smoothness is measured by using _____

A:-Smyth method

B:-Gurley tester

C:-Bekk method

D:-Hercules test

Correct Answer:- Option-C

Question42:-Irregularities in the sheet conformation leading to a rough, pock-marked paper surface is called

A:-Deckle

B:-Curl

C:-Cockles

D:-Finish

Correct Answer:- Option-C

Question43:-The change in Hue with inkfilm thickness is called

A:-Chromatism

B:-Dichroism

C:-Hue error

D:-Chromatic Stigma

Correct Answer:- Option-B

Question44:-Who invented papermaking machine which uses continuous moving wire screen belt and then sold the patent rights to fourdrinier brothers?

A:-Lois Robert

B:-Thomas Beckly

C:-Reed Jofferson

D:-Albin Thomas

Correct Answer:- Option-A

Question45:-Example for an Acid Dye is _____

A:-Eosine

B:-Auramine

C:-Rhodamine

D:-Victoria Blue

Correct Answer:- Option-A

Question46:-Paper properties must be measured under standard conditions of _____ temperature and _____ relative humidity.

A:-23°C and 50%

B:-25°C and 50%

C:-23°C and 55%

D:-25°C and 55%

Correct Answer:- Option-A

Question47:-Ingredients that added to the ink to impart mar-resistance, improved slip and water repelling proeprties

A:-Gum Arabic

B:-Shellac

C:-Waxes

D:-Resins

Correct Answer:- Option-C

Question48:-Example for natural resin used in ink manufacturing process

I. Shellac

II. Asphalts

III. Rosin

IV. Pure phenolic resins

A:-I only

B:-II and III only

C:-I, II and III only

D:-I, III and IV only

Correct Answer:- Option-C

Question49:-Expand the term NCR related to paper industry

A:-No chlorine required

B:-No chemicals required

C:-No carbon required

D:-All of the above

Correct Answer:- Option-C

Question50:-The substances which have the property of being adsorbed at surfaces or interfaces thereby reducing the interfacial tension are called

A:-Laking agent

B:-Surfactants

C:-Chelating agent

D:-Polyols

Correct Answer:- Option-B

Question51:-Factors affecting visual appearance of ink film. Which one of the following is correct?

(i) pH of paper

(ii) printing processes

(iii) thickness of printed ink film

(iv) nature of paper surfaces

A:-(ii), (iii), (iv)

B:-Both (ii) and (iii)

C:-Both (iii) and (iv)

D:-All of the above are correct

Correct Answer:- Option-D

Question52:-Normal temperature of the chilling unit in web offset machine

A:-20 - 22 °C

B:-24 - 27 °C

C:-15 - 15.5 °C

D:-23 - 25 °C

Correct Answer:- Option-C

Question53:-The accurate overprinting of the individual color separations is called

A:-Perfecting

B:-Registration

C:-Overlapping

D:-Trapping

Correct Answer:- Option-B

Question54:-Which of the following is not a component of the feed system in offset machine?

A:-Feed board

B:-Side guide

C:-Lifting suckers

D:-Impression cylinder

Correct Answer:- Option-D

Question55:-Function of blower foot in sheet fed offset

A:-Prevents static electricity in the paper

B:-Lifting suckers

C:-Anti setoff sprayer

D:-None of the above

Correct Answer:- Option-A

Question56:-The single component used to print ink on one web or sheet side characterized by a plate cylinder and a blanket cylinder with associated dampening and inking units is called

A:-Perfecting press

B:-Printing unit

C:-Printing couple

D:-Both 2 and 3

Correct Answer:- Option-C

Question57:-Expand the term RTF

A:-Roller top former

B:-Raised thickness ink film

C:-Rotation of the former

D:-None of the above

Correct Answer:- Option-A

Question58:-The temperature of the printing ink form roller should not exceed

A:-28 - 30 °C

B:-25 - 28 °C

C:-30 °C

D:-32 - 34 °C

Correct Answer:- Option-A

Question59:-Example for contact free dampening system :

- (i) Brush type
- (ii) Centrifugal type
- (iii) Epic delta
- (iv) Flap type

A:-(ii) only and (iv)

B:-(ii) and (iii) only

C:-(i) and (ii) only

D:-All are correct

Correct Answer:- Option-C

Question60:-The term festoons are related with which of the following

- A:-Zero speed splicer
- B:-Cover folder
- C:-Flying speed splicer
- D:-None of these

Correct Answer:- Option-A

Question61:-The moisture content of paper should range between _____

- A:-50% to 55%
- B:-45% to 55%
- C:-60% to 75%
- D:-30% to 45%

Correct Answer:- Option-B

Question62:-When small particles are torn off from the surface of the paper during the printing process is called _____?

- A:-Crease formation
- B:-Hickies
- C:-Picking
- D:-Tinting

Correct Answer:- Option-C

Question63:-Emulsification is the _____

- A:-Printing Problem
- B:-Blanket Problem
- C:-Paper Problem
- D:-Ink Problem

Correct Answer:- Option-D

Question64:-_____ is a condition in which dried ink gets easily rubbed off or is missing from the sheet.

- A:-Chalking
- B:-Piling
- C:-Blinding
- D:-Ghosting

Correct Answer:- Option-A

Question65:-Uneven amount of ink in the solid portion of the image causing printed sheets to appear cloudy major causes are _____

- (a) Too much ink carried to paper
- (b) Failure of ink to be absorbed uniformly by paper

- (c) Loose fitting plate on cylinder
- (d) Excess fountain solution

A:-(b) and (d) are correct

B:-(a) and (c) are correct

C:-(a) and (d) are correct

D:-All of these are correct

Correct Answer:- Option-A

Question66:-The transfer of ink from one sheet to the back of another on a delivery pile is called _____

A:-Slurring

B:-Scum

C:-Mis-registration

D:-Set Off

Correct Answer:- Option-D

Question67:-Improper cleaning of blanket and rollers, Excess use of solvents, Over exposure to UV light sources are the major causes of which problem?

A:-Swelling

B:-Glazing

C:-Slow ink drying

D:-Plate ware

Correct Answer:- Option-B

Question68:-Which of the following is not a colour measurement device?

A:-Thixotropy

B:-Gray Balance Patch

C:-Register marks

D:-Densitometer

Correct Answer:- Option-A

Question69:-Which colour measurement device that serves all the functions of spectrophotometer, densitometer and colorimeter in a single instrument?

A:-Star Target

B:-Colour Bar

C:-Spectrodensitometer

D:-Colour viewer

Correct Answer:- Option-C

Question70:-Match the following problems :

- | | |
|---------------------|--------------|
| (a) Paper Problem | (i) Glazing |
| (b) Blanket Problem | (ii) Set Off |
| (c) Ink Problem | (iii) Piling |

- (d) Printing Problem (iv) Picking
A:-(a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)
B:-(a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)
C:-(a)-(ii), (b)-(i), (c)-(iii), (d)-(iv)
D:-(a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)
Correct Answer:- Option-D

Question71:-Production of periodicals calico, leather etc, is not used in this type of binding. But attractive covers are used. This type of binding coming under which category?

- A:-Miscellaneous binding
B:-Library binding
C:-Paper back cut flush binding
D:-Manifold binding
Correct Answer:- Option-A

Question72:-Metal wire is forced through the folded edges of a signature is called _____

- A:-Side stitching
B:-Saddle stitching
C:-Thread stitching
D:-Gathering
Correct Answer:- Option-B

Question73:-When the covering material is fully covered on both sides of the board using a single material like leather or calico is called _____?

- A:-Half Bound
B:-Quarter Bound
C:-Full Bound
D:-Quarter Bound cut flush
Correct Answer:- Option-C

Question74:-The Book is covered with a thick Card or paper. The spine of the book is placed on the cover and fixed with the Book is known as _____

- A:-Edge Decoration
B:-Sprinkling
C:-Paperback edition
D:-Board cover edition
Correct Answer:- Option-C

Question75:-All the work that is done in binding after forwarding is called _____

- A:-Finishing

B:-Polishing

C:-Designing

D:-Backing

Correct Answer:- Option-A

Question76:-Match the following :

- (a) Jogging (i) Next operation after folding
(b) Counting (ii) Examining the gathered sections
(c) Collating (iii) Piling the sheets in to neatly laid edges
(d) Gathering (iv) Compared with work order features

A:-(a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)

B:-(a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)

C:-(a)-(i), (b)-(iii), (c)-(iv), (d)-(ii)

D:-(a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)

Correct Answer:- Option-B

Question77:-If an image is sunken into the substrate using embossing processing it is called _____

A:-Raised Design

B:-De bossing

C:-Blind embossing

D:-Foil stamping

Correct Answer:- Option-B

Question78:-A die has a metal cutting edge that matches

A:-Outline shape of the Magazine used

B:-Outline shape of the Board used

C:-Outline shape of the Book used

D:-Outline shape of the Design used

Correct Answer:- Option-D

Question79:-The papers which are pasted or sewn on both sides of a book are called _____

A:-Backing

B:-Gluing

C:-End papers

D:-Gilding

Correct Answer:- Option-C

Question80:-Class D Fire extinguishers are used for fire arising out of _____

A:-Materials such as wood, paper, Textiles etc.

B:-Flammable liquids such as grease, oils, paints etc.

C:-Electrical equipment such as motors, switches etc.

D:-Combustible metals such as magnesium and lithium etc.

Correct Answer:- Option-D

Question81:-Paper bags are ecofriendly and they are widely used in packaging

A:-They cause no harm to environment

B:-User friendly

C:-Cause serious threat to environment

D:-Both 1 and 2

Correct Answer:- Option-D

Question82:-_____ paper is made using Fourdrinier machine.

A:-Coated Paper

B:-Kraft Paper

C:-Bleached Paper

D:-Waxed Paper

Correct Answer:- Option-B

Question83:-The packaging material which is made of two sheets of liners that are pasted using an adhesive is called as _____

A:-Cardboard

B:-Corrugated box

C:-Corrugated plastic box

D:-Double layered paper

Correct Answer:- Option-B

Question84:-E-Commerce plays an important role that the ordered product reaches one end customer. How the customer satisfaction is maintained, that creates a brand value?

A:-Choosing the right marketing procedure

B:-Timely delivery

C:-Protective packaging for the ordered product

D:-Customer reviews and marketing

Correct Answer:- Option-C

Question85:-The first things the customer notices on package food products can be

A:-Product information and its advantages

B:-Product design

C:-Attractive package

D:-Extended shelf life

Correct Answer:- Option-A

Question86:-Blister packs is widely used for which consumer products?

A:-Clothing materials

B:-Pharmaceuticals and toys

C:-Food products

D:-Consumer items

Correct Answer:- Option-B

Question87:-Which of the following is a biodegradable product?

A:-Polythene bag

B:-Pet jar

C:-Milk carton

D:-PVC

Correct Answer:- Option-C

Question88:-The packaging product which offers good tensile strength that can with stand elevated temperatures

A:-PET jar

B:-Poly-butylene tere-phthalate (PBT)

C:-Polycarbonate

D:-Polystyrene

Correct Answer:- Option-B

Question89:-From the following select the specialty of biodegradable packaging material

A:-Easily disposable

B:-Contains harmful toxic materials

C:-Creates pollution

D:-Resistant to biological degradation

Correct Answer:- Option-A

Question90:-The important role of packaging can be defined as

A:-To shield and safeguard the product

B:-Do not protect the product

C:-Do not protect it from moisture, harmful organisms etc.

D:-Quality and freshness is not maintained

Correct Answer:- Option-A

Question91:-Name the gear that helps to drive rollers and other moving parts in printing machine

A:-Helical gear

B:-Bevel gear

C:-Spur gear

D:-Worm gear

Correct Answer:- Option-C

Question92:-The function of chains and sprockets is to

A:-To transmit mechanical power from one place to another

B:-Rotating on a point on itself

C:-Rotate from one side to another

D:-Rotate sideways

Correct Answer:- Option-A

Question93:-Select the device which convert mechanical energy into electrical energy

A:-Transformer

B:-Motor

C:-Gear

D:-Chains and Sprockets

Correct Answer:- Option-B

Question94:-The electric power transmitted has high voltage, that will damage the product. The device used to reduce the AC voltage is called

A:-Motor

B:-Step up transformer

C:-Step down transformer

D:-Switch

Correct Answer:- Option-C

Question95:-Which law is applicable in the case of working of an electric motor?

A:-Faraday's law of magnetic induction

B:-Newton's law of motion

C:-Newton's third law

D:-Law of gravitation

Correct Answer:- Option-A

Question96:-The function of resistor in a circuit is to

A:-Limit the current to a component or circuit

B:-Change AC to DC

C:-Limits power flow to one direction

D:-Transmitting mechanical power

Correct Answer:- Option-A

Question97:-The printing machine has hydraulic parts select the hydraulic parts from the following choices

A:-Generator and electric motor

B:-Helical gear

C:-Transistor and Diode

D:-integrated Circuits (IC)

Correct Answer:- Option-A

Question98:-Most diodes are made with semi-conductor materials. Name the metal mostly used to make semiconductors used in electronic circuits

A:-Ferrous compound

B:-Silicon

C:-Germanium

D:-Tin

Correct Answer:- Option-B

Question99:-Transistor helps in regulating current or voltage flow and acts as a switch. The three layer structure of PnP configuration of transistor is

A:-P-layer between two N-type layers

B:-N-type semiconductor layer sandwiched between two p-layers

C:-One N and one P-type semiconductors

D:-None of the above

Correct Answer:- Option-B

Question100:-An electronic component that stores and releases electricity into a circuit is known as

A:-Diode

B:-Transistor

C:-Capacitor

D:-Transformer

Correct Answer:- Option-C