

PROVISIONAL ANSWER KEY

Question 115/2023/OL

Paper Code:

Category 512/2022

Code:

Exam: Lecturer in Printing Technology

Date of Test 19-07-2023

Department Technical Education Govt Polytechnic Colleges

Question1:-The financial ratio that can be used to assess a company's profitability and capital efficiency is termed as

A:-ECQ

B:-WCR

C:-ROCE

D:-ROE

Correct Answer:- Option-C

Question2:-In order to saddle stitch a 16 page A4 size booklet of 25,000 copies with two wire staples on each booklet the machine is set to produce 0.030 meter length of wire per stitch. If it uses a 640 ft/kg coil of 20 gauge round wire, the total quantity of wire required to complete the work is approx _____ kg

A:-10.88

B:-7.69

C:-5.62

D:-18.9

Correct Answer:- Option-B

Question3:-_____ requires the absolute minimum of stock to be held at any time.

A:-Just in Time

B:-Progress Time

C:-Buffer Stock

D:-OPT

Correct Answer:- Option-A

Question4:-The process of selecting the sequence of operations to be executed in the manufacturing process is termed as

A:-Scheduling

B:-Routing

C:-Tracking

D:-Loading

Correct Answer:- Option-B

Question5:-The roll footage of a paper reel of caliper 0.002 inches and outer diameter of 80 inches while it is wound to a 10 inch metal core is _____ ft

A:-200167.7

B:-206167.5

C:-2061.6

D:-None of these

Correct Answer:- Option-B

Question6:-The period of time between the decision to order and when the materials become available for use is

A:-Just in Time

B:-Hourly Rate

C:-Progress Time

D:-Lead Time

Correct Answer:- Option-D

Question7:-Goodwill is an example for _____ asset

A:-Current

B:-Tangible

C:-Operating

D:-Intangible

Correct Answer:- Option-D

Question8:-Trait Theories focused on

A:-Leading strategies

B:-Leading situations

C:-Leader motivations

D:-Leader inherent qualities

Correct Answer:- Option-D

Question9:-The Scheduling comes under

A:-Prior planning phase

B:-Action Loading Phase

C:-Active Planning phase

D:-Forecasting

Correct Answer:- Option-C

Question10:-A reel having a net weight of 2.5 tonnes is to be cut into sheets of RA2 Folio size. How many sheets will it make, if the paper on reel has a substance of 70 GSM

A:-272.06

B:-136

C:-272316

D:-68079

Correct Answer:- Option-C

Question11:-Tung oil related to

A:-Licania Rigida

B:-Aleurities Fordii and A. Montan

C:-Ricinus Communis

D:-Glycine Hispida

Correct Answer:- Option-B

Question12:-The non-drying materials used in fountain solutions that attract water and thus leave a wet thin film on the plate surface during press stop

A:-Anti-oxidants

B:-Sequestering Agents

C:-Humectants

D:-Chelating Agents

Correct Answer:- Option-C

Question13:-_____ is an example of microencapsulated dye in carbonless paper coating

A:-Eosin

B:-Azoic

C:-Vat

D:-Leuco

Correct Answer:- Option-D

Question14:-A preservative that reduces the effect of oxidation of the developing agent from oxygen from air

A:-HCL

B:-NaOH

C:-Na₂SO₃

D:-Na₂B₄O₇

Correct Answer:- Option-C

Question15:-The Bendtsen Tester is related to

A:-Stiffness

B:-Bursting

C:-Porosity

D:-Tear Resistance

Correct Answer:- Option-C

Question16:-The tendency of ink to be flung out from the rollers in relatively large

droplets which find their way onto the other parts of the decorator in close proximity to the point of origin is called

- A:-Scum
- B:-Sling
- C:-Mottle
- D:-Slur

Correct Answer:- Option-B

Question17:-Based on size, _____ comes in-between the aluminium ingots and billets

- A:-Slab
- B:-Roll
- C:-Plate
- D:-Bloom

Correct Answer:- Option-D

Question18:-TAPPI T 579 represents the _____ test on paper

- A:-Tensile strength
- B:-Ash content
- C:-Brightness
- D:-None of these

Correct Answer:- Option-C

Question19:-Choose the plastics among the following which have comparatively the least MVTR

- A:-LDPE
- B:-PET
- C:-PS
- D:-PP

Correct Answer:- Option-D

Question20:-In digital imaging technique the discharge area development indicates _____ mode

- A:-Write white
- B:-Write light
- C:-Write black
- D:-None of these

Correct Answer:- Option-C

Question21:-An imaging process that can electronically read type written or printed pages and translate the characters into codes that can be saved as a text file and imported into a word processing program, eliminating the need for keyboarding

- A:-GCR

B:-OCR

C:-VCR

D:-USM

Correct Answer:- Option-B

Question22:-The software program that allows the creation of text matter in publishing

A:-Photoshop

B:-Coreldraw

C:-Inkscape

D:-Pagemaker

Correct Answer:- Option-D

Question23:-In image assembly the positioning of pages on a signature so that after printing, folding and cutting, all pages will appear in the proper sequence

A:-Dummy

B:-Preflighting

C:-Imposition

D:-Page assembly

Correct Answer:- Option-C

Question24:-The software or hardware component used in output devices to convert postscript images into bitmapped images

A:-Scanner

B:-RIP

C:-Colour Management Module

D:-Calibration program

Correct Answer:- Option-B

Question25:-A form of image compression that reduces the size of a graphic file by discarding some image data

A:-JPEG

B:-EPS

C:-PS

D:-GIF

Correct Answer:- Option-A

Question26:-A file format created by adobe systems to transfer computer documents from one computer to another without type of graphics problems

A:-JDF

B:-JPEG

C:-TIFF

D:-PDF

Correct Answer:- Option-D

Question27:-A server aided interface that enables a low-resolution version of the image to be produced when displaying postscript files for layout purposes subsequently the previews are then automatically replaced during imaging film /plate by high resolution images

A:-GUI

B:-CLI

C:-SCSI

D:-OPI

Correct Answer:- Option-D

Question28:-An orderly procedure using a checklist to verify that all components of an electronic file are present and correct prior to submit the document for high resolution output

A:-Ripping

B:-Preflighting

C:-Calibration

D:-Interfacing

Correct Answer:- Option-B

Question29:-A group of interconnected computers that allow several people at the same business site to access the same set of documents.

A:-LAN

B:-WAN

C:-MAN

D:-CSN

Correct Answer:- Option-A

Question30:-In computer networks, the term used to explain how a network is physically connected and the logical flow of information in the network

A:-Node

B:-Protocol

C:-Topology

D:-Hub

Correct Answer:- Option-C

Question31:-The non-printing area a type and also used to describe the enclosed area of letters

A:-X-height

B:-Counter

C:-Face

D:-Ascender

Correct Answer:- Option-B

Question32:-The alignment of text to the right of left margins

A:-Text fit

B:-Word wrap

C:-Text wrap

D:-Justification

Correct Answer:- Option-D

Question33:-Textlines are shortened to varied lengths to fit around the object

A:-Text wrap

B:-Text fill

C:-Text fit

D:-Text swap

Correct Answer:- Option-A

Question34:-Typographic and linguistic rules of a publishing house

A:-Trademark

B:-Style sheet

C:-House style

D:-Master style

Correct Answer:- Option-C

Question35:-In design, a shape having one dimension Artistically a stroke of a pen

A:-Line

B:-Shape

C:-Point

D:-Space

Correct Answer:- Option-A

Question36:-The pairs of colors made up of two colors on the opposite sides of the RBY color wheel

A:-Primary color

B:-Tertiary color

C:-Analogous color

D:-Complementary color

Correct Answer:- Option-D

Question37:-In design placement of colors light and dark masses or large and small objects in a picture of layout to create harmony and equilibrium

A:-Space

B:-Balance

C:-Contrast

D:-Texture

Correct Answer:- Option-B

Question38:-The adjustment of a color production device-scanner monitor printer to match established performance specifications

A:-Standard

B:-Conversion

C:-Calibration

D:-Manipulation

Correct Answer:- Option-C

Question39:-The number of image elements dots/pixels per unit length that can be reproduced on a monitor/film/image carrier or on paper

A:-Resolution

B:-Gray scale

C:-Screen Angle

D:-Chromaticity

Correct Answer:- Option-A

Question40:-In any production environment, all the stages through which a project or job must pass until it is completed and also refers to the physical set of equipment and resources used to complete a project

A:-Networking

B:-Work chain

C:-Operations control

D:-Workflow

Correct Answer:- Option-D

Question41:-The image in which the range of tones consisting of dots with varying area but of uniform density

A:-Hire

B:-Halftone

C:-Gray

D:-Chrome

Correct Answer:- Option-B

Question42:-The screening process in which colour separations are prepared at no special angles

A:-Am screening

B:-Halftone screening

C:-Hybrid screening

D:-Stochastic screening

Correct Answer:- Option-D

Question43:-The process where a change in illuminant will cause visual shift in a metameric color for a given observer

A:-Metamerism

B:-Color blindness

C:-Color cast

D:-Gray balance

Correct Answer:- Option-A

Question44:-The condition in color reproduction where the dot size values of Cyan, magenta and yellow colours are balanced to give visual neutral gray

A:-Saturation

B:-Gray balance

C:-Whiteness

D:-Neutral colors

Correct Answer:- Option-B

Question45:-The range of colours which can be produced in subtractive color printing by combining inks of four process colors or can be displayed on a screen using additive RGB.

A:-Colour guide

B:-Colour bar

C:-Colour gamut

D:-Colour chart

Correct Answer:- Option-C

Question46:-The colour model which uses the terms-hue, chroma and value to describe the attributes of color

A:-Munsell model

B:-CMY model

C:-RGB model

D:-CIE model

Correct Answer:- Option-A

Question47:-A color separation device that converts the optical properties of originals into electronics forms of color separation images that are suitable for subsequent image processing

A:-Color analyser

B:-Colorimeter

C:-Spectrophotometer

D:-Scanner

Correct Answer:- Option-D

Question48:-The branch of color science concerned with measuring and evaluating the colors of objects or images

A:-Spectrophotometry

B:-Colorimetry

C:-Colour modeling

D:-Densitometry

Correct Answer:- Option-B

Question49:-The use of appropriate mathematical transformations within a computer system to control and adjust color in an imaging system

A:-Color correction

B:-Color matching

C:-Color management

D:-Color manipulation

Correct Answer:- Option-C

Question50:-The process in which images are converted from one color space to another color space

A:-Conversion

B:-Calibration

C:-Characterization

D:-Profiting

Correct Answer:- Option-A

Question51:-In plate cylinder of offset printing machine, undercut is

A:-To hold the plate tightly in position

B:-To provide space for the packing

C:-To grip the edge of the plate and then pull it tight against cylinder

D:-The body difference between radius of body surface and bearers

Correct Answer:- Option-D

Question52:-On-Demand printing most of those costs are significantly lower as stated below

(i) Shorter make ready time

(ii) Lack of prepress work

(iii) Inline binding and finishing

A:-Only (ii) and (iii)

B:-Only (i) and (ii)

C:-All of the above (i), (ii) and (iii)

D:-Only (i) and (iii)

Correct Answer:- Option-C

Question53:-In offset printing machine the cylinder contact pressure is roughly around

A:-200 lb/sq in

B:-400 lb/sq in

C:-300 lb/sq in

D:-500 lb/sq in

Correct Answer:- Option-A

Question54:-Which of the following statement is/are correct about JDF file format?

(i) Does not include message interchange protocol

(ii) Includes message description standard

(iii) XML based file format

A:-Only (ii) and (iii)

B:-Only (i) and (iii)

C:-Only (i) and (ii)

D:-All of the above

Correct Answer:- Option-A

Question55:-A mold made from an engraving or type form , from which a rubber plate is subsequently made

A:-Anilox Roll

B:-Matrix

C:-Mandrel

D:-Image Assembly

Correct Answer:- Option-B

Question56:-The stack press in Flexographic presses consist of

(i) Colour stations stacked vertically

(ii) Own inking rollers and plate cylinders

(iii) Common impression cylinder

A:-Only (ii) and (iii) are correct

B:-Only (i) is correct

C:-All are correct

D:-Only (i) and (ii) are correct

Correct Answer:- Option-D

Question57:-Which Doctor blade design has a longer working life

A:-MDC/Ringier

B:-Counter face

C:-Rounded

D:-Conventional

Correct Answer:- Option-A

Question58:-The Sunken portion of a Gravure cylinder that holds ink during printing

A:-Bridge

B:-Depth

C:-Gravure well

D:-Anilox Roll

Correct Answer:- Option-C

Question59:-The screen printing fabric which is less expensive and has more uniform mesh apertures

A:-Silk - The original mesh fabric

B:-Monofilament mesh fabric

C:-Wire mesh/wire cloth

D:-Multifilament polyester

Correct Answer:- Option-D

Question60:-In screen printing screen tension depends on the following

(i) The screen material

(ii) Fabric count and quality

(iii) Yield point they determine

A:-Only (i) and (ii) are correct

B:-Only (iii) is correct

C:-Only (ii) and (iii) are correct

D:-All of the above

Correct Answer:- Option-D

Question61:-Which plate setter (or) setters design provides good and firm support to plate and vibration proof as possible

A:-Internal drum plate setter

B:-Flatbed plate setter

C:-External drum plate setter

D:-All of the above

Correct Answer:- Option-A

Question62:-The wavelength of red laser diode which are most common and economical are in the range of

A:-650-690 nm

B:-720-760 nm

C:-800-830 nm

D:-630-670 nm

Correct Answer:- Option-D

Question63:-Which type of 3D printing techniques uses mirrors known as galvos with one positioned on X-axis and another on Y-axis

A:-FDM

B:-SLA

C:-DLP

D:-SLS

Correct Answer:- Option-B

Question64:-The group of techniques used to quickly fabricate a physical part or assembly from a 3D design is known as

A:-Additive manufacturing

B:-CAD modelling

C:-Rapid prototyping

D:-Fused depositing

Correct Answer:- Option-C

Question65:-Match the following for printed Electronics

Printing process	Applications
(a) Screen printing	(i) Low volume, High precision
(b) Offset	(ii) High volume production
(c) Gravure	(iii) specific applications like solar cells
(d) Plexography	(iv) Quality sensitive layers

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

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

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

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

Correct Answer:- Option-D

Question66:-This folding scheme has at least one fold that is at a right angle to the other

A:-Parallel fold

B:-French fold

C:-Buckle fold

D:-Knife fold

Correct Answer:- Option-B

Question67:-The process of fastening one or more signature along the folded or back bone edge of the unit

A:-Mechanical binding

B:-Side-sewn binding

C:-Loose-leaf binding

D:-Saddle binding

Correct Answer:- Option-D

Question68:-Match the following

The process

Term

- | | |
|---------------------------------|-----------------|
| (a) Two pieces of Boards | (i) Casing -in |
| (b) Joining book with case | (ii) Head Band |
| (c) Attaching two parts of case | (iii) case |
| (d) Decorative tape | (iv) End Sheets |

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

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

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

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

Correct Answer:- Option-D

Question69:-The dominant binding process in Industrial book and Brochure production is done through the following process

A:-Perfect binding

B:-Wire stitching

C:-Case making

D:-Loose leaf binding

Correct Answer:- Option-A

Question70:-Which statement/statements are true?

The Rounding and Backing process

- (i) Increase the binding strength
- (ii) Improves the opening properties of book
- (iii) Improves the stability of the block

A:-Only (i)

B:-Both (i) and (ii)

C:-Both (ii) and (iii)

D:-All of the above

Correct Answer:- Option-D

Question71:-The term often used to mean gathering/checking sections

A:-Casing

B:-Bundling

C:-Collating

D:-Folding

Correct Answer:- Option-C

Question72:-Which of the following types of end paper gives more strength to the book to which it is attached and economical

A:-Single end paper

B:-Re inforced end paper

C:-Zig zag end paper

D:-Cloth joint end paper

Correct Answer:- Option-B

Question73:-A page in a magazine or book which folds out to double its size

A:-Bleed

B:-Spread sheet

C:-Double spread

D:-Gate fold

Correct Answer:- Option-D

Question74:-Finishing operations that produces a relief image by pressing paper/board between special dies

A:-Embossing

B:-Die cutting

C:-Creasing

D:-Debossing

Correct Answer:- Option-A

Question75:-Match the following in folding types

- | | |
|------------------------------|-----------------------------|
| (a) Triangular shaped | (i) Jaw folder |
| (b) Folds across width | (ii) Former Board |
| (c) To rotating fold Rollers | (iii) Double chopper folder |
| (d) High speed production | (iv) Chopper folder |

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

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

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

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

Correct Answer:- Option-A

Question76:-In active modification of modified atmosphere packaging, the procedure of displacing the air with a controlled, desired mixture of gases is called as _____

A:-Gas pumping

B:-Gas flushing

C:-Gas filling

D:-Gas sealing

Correct Answer:- Option-B

Question77:-Which one of the followings is a noble gas which is much denser than Nitrogen and four times more efficient at displacing air in packaging?

A:-Oxygen

B:-Carbon monoxide

C:-Argon

D:-Carbon dioxide

Correct Answer:- Option-C

Question78:-The lift -off-lid (LOL) type box normally comes under which category?

A:-Rigid box

B:-Corrugated box

C:-Folding carton

D:-Flat packed boxes

Correct Answer:- Option-A

Question79:-Name the biodegradable plastic material derived from fermented plant starch like corn, sugar cane pulp which is used for food packaging

A:-Polyacetic acid

B:-Polycitric acid

C:-Polynitric acid

D:-Polylactic acid

Correct Answer:- Option-D

Question80:-_____ is a device in intelligent packaging system that shows an irreversible change in a physical characteristic, usually color or shape

A:-Time Temperature Indicator

B:-Total Time Indicator

C:-True Temperature Indicator

D:-True Time Indicator

Correct Answer:- Option-A

Question81:-Name the three channeled tristimulus color measuring instrument used in print quality control

A:-Durameter

B:-Densitometer

C:-Colorimeter

D:-Tintometer

Correct Answer:- Option-C

Question82:-Which part of the densitometer helps to obtain approximately identical readings from wet and dry inks?

A:-Color filter

B:-Analyzer

C:-Aperture

D:-Polarizing filter

Correct Answer:- Option-D

Question83:-What is the name of the device to visually inspect the running web?

A:-Stroboscope

B:-Tachometer

C:-Colorimeter

D:-Spectrophotometer

Correct Answer:- Option-A

Question84:-If an object transmits or reflects all light , its density is

A:-One

B:-Two

C:-Zero

D:-d-max

Correct Answer:- Option-C

Question85:-What is the ISO standard recommendation quality of the light used for viewing printed matter?

A:-3000 K

B:-4000 K

C:-5000 K

D:-6000 K

Correct Answer:- Option-C

Question86:-The transition of tones from shadow to highlights is termed as

A:-Saturation

B:-Contrast

C:-Brightness

D:-Darkness

Correct Answer:- Option-B

Question87:-When the star target fills in at the centre, it indicates

A:-Slur

B:-Ok print

C:-Dot loss

D:-Dot gain

Correct Answer:- Option-D

Question88:-Which print quality control aid helps in identifying the predominance of one of the printed process colors in a printed sample?

A:-Star target

B:-Slur gauge

C:-Grey balance patch

D:-Trapping patch

Correct Answer:- Option-C

Question89:-ISO 2846-2 specifies the color and transparency to be produced by inks intended for four-colour

- A:-Coldset web offset printing
 - B:-Headset web offset printing
 - C:-coldset sheetfed offset printing
 - D:-Heatset web offset printing
- Correct Answer:- Option-A

Question90:-The "E" in delta E stands for Empfindung which is the German word for

- A:-Accuracy
- B:-Sensation
- C:-Measurement
- D:-Color

Correct Answer:- Option-B

Question91:-Name the paper harvested in a responsible manner from a sustainable forest?

- A:-Coated paper
- B:-Bleached paper
- C:-FSC certified paper
- D:-Laid paper

Correct Answer:- Option-C

Question92:-Which one of the following is used in eco friendly inks?

- A:-Mineral oil
- B:-Turrentile oil
- C:-Soybean oil
- D:-Paraffin oil

Correct Answer:- Option-C

Question93:-In waterless green printing technology, instead of water which layer is used to repel the ink in non image areas of the plate?

- A:-Photopolymer layer
- B:-Silicone layer
- C:-Base layer
- D:-Anti halation layer

Correct Answer:- Option-B

Question94:-The ISo propyl Alcohol used in the offset dampening solution reduces the _____ of dampening solution

- A:-pH value
- B:-Conductivity
- C:-Density
- D:-Surface tension

Correct Answer:- Option-D

Question95:-A paper manufactured with net zero effect on Green House gas in atmosphere is termed as

A:-Carbon neutral paper

B:-Carbon credit paper

C:-Carbon less paper

D:-Carbon paper

Correct Answer:- Option-A

Question96:-What does 4R represents in waste minimization?

A:-Remove, receive, recover, reduce

B:-Reduce, reuse, recycle, recover

C:-Remove, reduce, recycle, reuse

D:-Receive, reuse, recycle, reduce

Correct Answer:- Option-B

Question97:-Which is the most sustainable ink and has negative carbon footprint?

A:-Water-based ink

B:-UV ink

C:-Algae ink

D:-3D printing ink

Correct Answer:- Option-C

Question98:-Name the type of eco friendly plate which eliminates the chemistry used to develop and remove the non-image area of the plate

A:-Anodized Aluminium plate

B:-Pre sensitized plate

C:-Deep etch plate

D:-Processless plate

Correct Answer:- Option-D

Question99:-What is the noise level over 8 hours recommended by World Health Organization?

A:-95dBA

B:-85 dBA

C:-75 dBA

D:-55 dBA

Correct Answer:- Option-C

Question100:-Which one of the followings is a bio chemical used in printing industry?

A:-Methyl Ethyl Ketone

B:-Toluene

C:-Xylene

D:-Terpene

Correct Answer:- Option-D