1. In EAN barcode system the _____ is used as first three digits to identify the number belongs to a book.

(A) 978 (B) 987

(C) 938 (D) 977

(E) Answer not known

2. _____ colors should not be used for printing barcodes.

(A) Black (B) Navy blue

(C) Dark green (D) Gold

(E) Answer not known

3. In ISBN numbering system _____ are the first three digits allocated for identifying periodicals.

(A) 977 (B) 978

(C) 979 (D) 980

(E) Answer not known

4. _____ is effective for protecting copyrighted contents in digital forms & web.

(A) RDM (B) DRM

(C) DDR (D) SSD

(E) Answer not known

5. _____ is needed to start a new paragraph in HTML.

(A) (B)

(C) <\p> (D)

(E) Answer not known

6. Hybrid printing systems combine conventional printing with _____ printing technologies to improve flexibility.

(A) Manual
(B) Embossing
(C) Engraving
(D) Non-Impact Printing (NIP)
(E) Answer not known

7. The _____ of the waterless offset process requires maintaining thermal level within narrower limits than traditional methods.

(A) Ink distribution
(B) Vacuum pressure
(C) Temperature control
(D) Blanket tension
(E) Answer not known

8. In waterless offset printing, the dampening solution is replaced by

(A) Water spray
(B) Rubber blanket
(C) Silicone-coated printing plate
(D) UV lamp
(E) Answer not known

9. _____ is an embedded security features.

(A) Micro lettering
(B) Latent image
(C) Security thread
(D) Guilloche pattern
(E) Answer not known

10. Consider the following statements regarding waterless offset drawbacks :

(a) Inks require higher viscosity than conventional offset.

(b) Paper dust leads to rapid dirtying of the blanket.

(c) Plates are more sensitive to mechanical damage.

(A) (a) only
(B) (a) and (b) only
(C) (a) and (c) only
(D) (b) and (c) only
(E) Answer not known

11. A two-dimensional arrangement of bits representing an image containing only two tones-black and white is _____

(A) Gray
(B) n-colour
(C) Bitmap
(D) Process colour
(E) Answer not known

12. A measure of the number of discrete picture elements in a unit area of a digital or printed image is _____

(A) Stochastic screening
(B) Supercells screening
(C) Spatial resolution
(D) Spectral reflectance
(E) Answer not known

13. _____ are presses with a digital front end and a conventional ink-based printing unit.

(A) Xerography printing

(B) Direct imaging presses

(C) Ink jet printing

(D) Electrophotography printing

(E) Answer not known

14. Which of the following statements are true about Ink-jet printing?

(i) Originally used in personalizing direct mail pieces

(ii) Possible to create completely customized documents for individual recipients

(iii) It is an Impact printing process

(A) (i) only

(B) (i) and (ii) only

(C) (i) and (iii) only

(D) (ii) and (iii) only

(E) Answer not known

15. Printing unique QR Codes, serial numbers and barcodes is an application of _____ printing in hybrid systems.

(A) Variable Data
(B) Relief
(C) Intaglio
(D) Embossing
(E) Answer not known

16. Which of the following combination includes in Mechanical ghosting?

(i) Ink starvation ghosting

(ii) Gloss ghosting

(iii) Repeat ghosting

(A) (i) only
(B) (ii) only
(C) (i) and (ii) only
(D) (i) and (iii) only
(E) Answer not known

17. Choose the incorrect statement about mottle in offset printing

(a) Often caused by paper coating with uniform absorptivity

(b) Irregular and unwanted variation in color

(c) Mottle is found backside of uncoated papers

(d) Paper smoothness variation causes ink gloss mottle

(A) (a) and (b) (B) (a) and (c)

(C) (b) and (d) (D) (b) and (c)

(E) Answer not known

18. In relation to gravure ink problems, match the following causes

Printing problem	Causes
(a) Cylinder wear	1. Impression roll durometer is too high
(b) Impression roll buildup	2. Ink doesn't wet substrate evenly
(c) Mottle	3. Ink contains foreign particles

	(a)	(b)	(c)
(A)	3	1	2
(B)	3	2	1
(C)	1	2	3
(D)	2	1	3

(E) Answer not known

19. The dirt and debris leave marks in print called as _____

(A) Hickeys
(B) Dusting
(C) Linting
(D) Picking
(E) Answer not known

20. The main causes for ink setoff in offset ink problem are _____.

(a) Ink sets too slowly
(b) Ink is too soft
(c) Paper holds out ink excessively

(A) (a) only
(B) (b) only
(C) (c) only
(D) (a), (b) and (c)
(E) Answer not known

21. In densitometer optical density is calculated as _____.

(A) Log_{10} photocell light intensity
(B) Log_{10} Lightness
(C) Log_{10} Optical opacity
(D) Log_2 photocell light intensity
(E) Answer not known

22. _____ is meant for Environmental auditing.

(A) ISO 9001
(B) ISO 9002
(C) ISO 14010
(D) ISO 14020
(E) Answer not known

23. _____ is used for controlling the Quality of photographic images on film.

(A) Transmission densitometer
(B) Reflection densitometer
(C) Transmission Tensiometer
(D) Reflection Tensiometer
(E) Answer not known

24. In Densitometer, _____ color filter is used to measure cyan density.

(A) red
(B) green
(C) blue
(D) yellow
(E) Answer not known

25. _____ gives accurate measurement of color.

(A) Densitometer
(B) Spectrophotometer
(C) Calorimeter
(D) Digital Microscope
(E) Answer not known

26. Match the following :

(a)	Water absorbency	1.	Force applied to free end of paper
(b)	Stiffness	2.	Rubber diaphragm
(c)	Burst resistance	3.	Test sample prepared with initial cut
(d)	Tear resistance	4.	Cobb test

	(a)	(b)	(c)	(d)
(A)	4	1	2	3
(B)	1	4	2	3
(C)	4	1	3	2
(D)	1	4	3	2

(E) Answer not known

27. _____ test is used to measure the surface strength of paper.

(A) Surface pH test
(B) Wax pick test
(C) Surface smoothness
(D) Surface colour
(E) Answer not known

28. Which of the following remedies are best suited for controlling blanket piling in lithographic process?

(a) Add alcohol substitute to dampening solution
(b) Decrease water feed
(c) Increase press speed

(A) (a) only
(B) (b) only
(C) (c) only
(D) (a), (b) and (c)
(E) Answer not known

29. _____ is not a defined histogram shape.

(A) Symmetric
(B) Skewed right
(C) Skewed left
(D) Curvilinear
(E) Answer not known

30. Box Compression Strength can be calculated by having

(a) Edge crush test values
(b) Box perimeter
(c) Combined board thickness
(d) Concora crush test values of flutes

(A) (a) and (b)
(B) (b) and (c)
(C) (c) and (d)
(D) (a), (b) and (c)
(E) Answer not known

31. ———————— statistical process control tool gives the details about the frequency of an occurrence within or resulting from a process.

(A) Check sheet
(B) Pareto chart
(C) Run chart
(D) Flow chart
(E) Answer not known

32. In ———————— data from an attribute is plotted against data from a particular influence or variable

(A) Pareto chart
(B) Histogram
(C) Scatter diagram
(D) Cause and Effect diagram
(E) Answer not known

33. Match the following

(a)	Seiri	1.	Clean up
(b)	Seiton	2.	Personal cleanliness
(c)	Seiketsu	3.	Discipline
(d)	Seiso	4.	Orderliness
(e)	Shitsuke	5.	Proper arrangement

	(a)	(b)	(c)	(d)	(e)
(A)	4	1	3	2	5
(B)	3	5	1	2	4
(C)	5	4	2	1	3
(D)	1	3	4	5	2

(E) Answer not known

34. 'Muda', refers to ———————— classes of waste.

(A) 5 (B) 6

(C) 7 (D) 8

(E) Answer not known

35. Positive and Negative correlation is observed in ————————.

(A) Pareto chart (B) Histogram

(C) Scatter diagram (D) Run chart

(E) Answer not known

36. Cost accounting mainly helps the management in ————————.

(A) Promoting Brand Identity
(B) Providing information to the management for decision making
(C) Fixing price of the products
(D) Earning extra profits
(E) Answer not known

37. Conversion cost is the sum total of ————————.

(A) Direct material cost and wages cost
(B) Direct wages, direct expenses and factory overhead
(C) Indirect wages and factory overheads
(D) Indirect Expenses and Indirect material cost
(E) Answer not known

38. ———————— formula may be used for calculating weight of reel of paper in kilogram.

(A) $W_R = (GSM \times B \times L)/1000$
(B) $W_R = (GSM \times B \times L) \times 1000$
(C) $W_R = GSM + B + L + 1000$
(D) $W_R = (GSM + B + L) / 1000$
(E) Answer not known

39. ———————— is the wastage allowance for estimating leather covering materials for full bound books.

(A) 25 – 30%
(B) 40 – 50%
(C) 50 – 70%
(D) 70 – 80%
(E) Answer not known

40. Cost of idle time arising due to non-availability of raw materials should be;

(A) Charged to costing profit and loss account

(B) Charged to factory overheads

(C) Recovered by inflating the wage rate

(D) Charged to work overheads

(E) Answer not known

41. The number of printed pages can be calculated by

(A) Dividing the total no. of words in the copy by no. of words in printed page

(B) Multiply total no. of words in the copy into no. of words in printed page

(C) Adding total no. of words in the copy plus no. of words in printed page

(D) Only counting no. of words in printed page

(E) Answer not known

42. The sum total of horse power of all the motors and the average hours of their working is called as ————————.

(A) Horse power hour

(B) Budgeted hour

(C) Composite machine hour

(D) Time rate hour

(E) Answer not known

43. Estimating is also termed as ————————.

(A) Job costing

(B) Process costing

(C) Advance costing

(D) Joint costing

(E) Answer not known

44. ———————— series of ISO paper size is mainly used for envelops.

(A) A
(B) B
(C) C
(D) D
(E) Answer not known

45. The formula for calculating weight of loose sheets (W_{tn}) is equal to ————————.

Where, N – No. of sheets in the pile

A – Area of paper sheet

(A) $W_{tn} = (GSM \times A \times N)/1000$
(B) $W_{tn} = (GSM \times A)/(N \times 1000)$
(C) $W_{tn} = GSM / (A \times N \times 1000)$
(D) $W_{tn} = A/(GSM \times N \times 1000)$
(E) Answer not known

46. _____ is the international size for imperial (paste - boards).

(A) 572×724 mm
(B) 572×786 mm
(C) 521×636 mm
(D) 648×762 mm
(E) Answer not known

47. _____ is useful in print manufacturing industries with varying levels of output.

(A) Direct costing
(B) Marginal costing
(C) Absorption costing
(D) Uniform costing
(E) Answer not known

48. The prime cost is equal to _____.

(A) Direct material + Direct labour + Direct expenses

(B) Direct material + Direct labour – Direct expenses

(C) Indirect material + Direct labour + Direct expenses

(D) Indirect material + Direct labour – Direct expenses

(E) Answer not known

49. A completed job ticket helps minimize production errors by providing accurate _____ to every department.

(A) Advertisements

(B) Financial reports

(C) Job specifications

(D) Customer feedback

(E) Answer not known

50. While planning machine loading, the relationship between personnel costs and capital costs helps to determine the _____ production schedule.

(A) Longest

(B) Slowest

(C) Manual

(D) Least-cost

(E) Answer not known

51. How does lean production improve efficiency in a printing company?

(A) By applying just in time supply to the production

(B) By increasing inventory levels

(C) By increasing machine downtime

(D) By eliminating production planning

(E) Answer not known

52. Consider the following statements regarding job scheduling

(a) It helps allocate jobs to available machines and resources.

(b) Proper scheduling minimizes machine idle time.

(c) Job scheduling eliminates the need for production control.

(A) (a) only
(B) (a) and (b) only
(C) (a) and (c) only
(D) (b) and (c) only
(E) Answer not known

53. As the job begins the production sequence, a production docket is called as _____ in a printing press.

(A) Purchase order
(B) Job ticket
(C) Production invoice
(D) Job order
(E) Answer not known

54. How many paper in 61 × 88 cm will be required for printing of 20,000 booklets in 210 × 297 mm size assuming that each booklet contains 24 pages without wastage?

(A) 40 Reams
(B) 50 Reams
(C) 30 Reams
(D) 60 Reams
(E) Answer not known

55. The cost which remains unchanged regardless of production quantity is _____.

(A) Material cost
(B) Product cost
(C) Fixed cost
(D) Ink cost
(E) Answer not known

56. _____ is commonly used in triple wall construction of corrugated board.

(A) Sewing
(B) Wire stitching
(C) Mechanical binding
(D) Loose leaf binding
(E) Answer not known

57. The water resistance of adhesive joints in corrugated board is tested accordance to _____.

(A) DIN 53133
(B) DIN EN 23035
(C) DIN 53743
(D) DIN 58545
(E) Answer not known

58. The best printability can be observed in single wall corrugated board made with _____ flute.

(A) A
(B) B
(C) C
(D) E
(E) Answer not known

59. _____ quantifies the strength of bond between the medium's flute tips and the linerboard facings.

(A) Pin adhesion test
(B) Ply separation test
(C) Coefficient of friction test
(D) Flexural test
(E) Answer not known

60. The percentage of water retained by paper is a function of _____ and _____.

(A) Temperature and pressure

(B) Pressure and RH

(C) Temperature and RH

(D) Temperature and absolute pressure

(E) Answer not known

61. Take-up factor of corrugated board grades are calculated by

(A) Length of medium/length of finished corrugated board

(B) Length of medium × length of finished corrugated board

(C) Length of medium + length of finished corrugated board

(D) Length of medium – length of finished corrugated board

(E) Answer not known

62. Recycled board typically has a smoother surface finish and _____ coefficient of friction than virgin kraft

(A) Very higher

(B) Moderate

(C) Lower

(D) Higher

(E) Answer not known

63. Which of the following is incorrectly paired?

(a) UV Varnish – UV Curing

(b) Water based Varnish – Water Carrier

(c) EVA adhesive – Lamination

(d) PUR adhesive – Reduces bonding strength

(A) (a)

(B) (b)

(C) (c)

(D) (d)

(E) Answer not known

64. Identify the correct matches

1. Colour – Appearance of printed image

2. Pigment dispersion – Uniform Colour distribution

3. Gloss – Reduces brightness

4. Drying rate – Not related to printing

(A) 1 and 3 are correct

(B) 1 and 2 are correct

(C) 2 and 3 are correct

(D) 3 and 4 are correct

(E) Answer not known

65. Which of the following statements are true?

(a) Water based varnishes use water as a carrier

(b) Solvent based varnishes contain organic solvents

(c) UV varnishes dry only by evaporation of water

(A) (a) only
(B) (a) and (b) only
(C) (a) and (c) only
(D) (a), (b) and (c) only
(E) Answer not known

66. The resistance of ink to flow is known as _____

(A) Tack
(B) Gloss
(C) Viscosity
(D) Opacity
(E) Answer not known

67. Quick-set ink are developed to _____

(A) Increase paper thickness
(B) Reduce color strength
(C) Dry quickly after printing
(D) Remove pigments
(E) Answer not known

68. Assertion [A] : Filtration is performed before testing in ink manufacturing

Reasons [R] : Filtration removes coarse particles and impurities that may affect print quality

(A) Both [A] and [R] are true, and [R] is the correct explanation of [A]

(B) Both [A] and [R] are true, but [R] is not the correct explanation of [A]

(C) [A] is true, but [R] is false

(D) [A] is false, but [R] is true

(E) Answer not known

69. Match the ink component with its primary function

List I	List II
(a) Pigment	1. Speeds up oxidation
(b) Binder	2. Provides color
(c) Solvent	3. Carries dissolved materials
(d) Drier	4. Forms the ink film

	(a)	(b)	(c)	(d)
(A)	4	2	1	3
(B)	3	1	4	2
(C)	2	4	3	1
(D)	1	3	2	4

(E) Answer not known

70. The contamination from the fiber suspension is removed by _____ process

(A) Disintegration
(B) Deflaking
(C) Bleaching
(D) Screening and floatation
(E) Answer not known

71. In the grinding process, round logs are pressed against pulp stone under _____ and _____ conditions.

(A) Pressure & temperature
(B) Time & pressure
(C) Speed & time
(D) Feeding rate & grinding pressure
(E) Answer not known

72. _____ is the basis weight of Newspaper

(A) 50 g/m^2
(B) 65 g/m^2
(C) 80 g/m^2
(D) 120 g/m^2
(E) Answer not known

73. The Moisture Expansion (ME) is equal to ———————— where,

ΔL – Change of length of a sample paper strip

L_O – Original length

L_f – Final length

(A) $ME = L_f / \Delta L$ (B) $ME = L_o / \Delta L$

(C) $ME = \Delta L / L_o$ (D) $ME = \Delta L / L_f$

(E) Answer not known

74. The opacity is a measure of ————————.

(A) Light fastness

(B) Light tightness

(C) Light permeability

(D) Colour fastness

(E) Answer not known

75. In ISO 187, the preferred climatic conditions for paper testing is _____ °C and _____ RH

(A) 23 °C and 50% RH

(B) 23 °C and 60% RH

(C) 25 °C and 50% RH

(D) 25 °C and 60% RH

(E) Answer not known

76. Which of the following statements are true about burst or slot binding?

(i) Back folds of the sections are removed

(ii) Backs are slit through in parts

(iii) Back folds of the sections are not removed

(A) (i) only
(B) (i) and (ii) only
(C) (ii) and (iii) only
(D) (iii) only
(E) Answer not known

77. The upper layers of the ream are cut shorter than the lower layers when the knife pulls the material from beneath the clamp during the cutting cycle is _____

(A) Under cut
(B) Over cut
(C) Bulge cut
(D) Wavy cut
(E) Answer not known

78. Coating the borders of book pages with gold leaf is _____

(A) Edge gilding
(B) Edge gluing
(C) Embossing
(D) Dummy
(E) Answer not known

79. The process that produces a hard cover book

(A) Loose leaf binding
(B) Mechanical binding
(C) Perfect binding
(D) Case binding
(E) Answer not known

80. The _____ dies are used for display work and other applications where several different items are combined on one sheet of base material

(A) Jaw steel rule
(B) Single unit steel rule
(C) Multi-unit steel rule
(D) Platen steel rule
(E) Answer not known

81. The type of binding in which the leaves of a book are held together at the binding edge by glue or synthetic adhesive is _____

(A) Perfect binding
(B) Saddle stitching
(C) Side stitching
(D) Sewing
(E) Answer not known

82. A mechanical binding method in which a continuous wire coil is run through a series of closely spaced holes near the gutter margin of loose sheets is _____

(A) Spiral binding
(B) Comb binding
(C) Wire-O-binding
(D) Case binding
(E) Answer not known

83. The converting operation in which two or more surfaces are fused together using specific heat, time and pressure

(A) Heat sealing
(B) Heat lamination
(C) Varnishing
(D) Coating
(E) Answer not known

84. The length of time in which the hot melt adhesive remains tacky enough is called _____

(A) Glue setting time
(B) Glue hardening time
(C) Open time
(D) Closed time
(E) Answer not known

85. Water based _____ is used as cold glue in perfect binding.

(A) PVA
(B) PVC
(C) PET
(D) PS
(E) Answer not known

86. Binding method comprising a continuous double loop of wire running through slots in the margin of a book is _____

(A) Wire-O-binding
(B) Spiral binding
(C) Comb binding
(D) Ring binding
(E) Answer not known

87. The device on a perfect binder that chops off the folded spines of the signatures to expose the individual sheets to the glue

(A) Nail head
(B) Nippers
(C) Milling head
(D) Looping
(E) Answer not known

88. Which of the following statements are true about hot melt process used for lamination?

(i) Heat is a laminating agent

(ii) Molten wax is applied when the substrates are combined

(iii) Electron beam coating is applied when the substrates are combined

(A) (i) only
(B) (i) and (ii) only
(C) (i) and (iii) only
(D) (ii) and (iii) only
(E) Answer not known

89. Which of the following comes under asymmetrical fold?

(1) Concertina folding

(2) Gate folding

(3) The fold halves the original format

(A) (1) only
(B) (2) only
(C) (1) and (2) only
(D) (2) and (3) only
(E) Answer not known

90. The common processing errors that can occur with gathering machines

(A) Wet sheets
(B) Missing sections
(C) Ink shortage sheets
(D) Fold marks
(E) Answer not known

91. Die-cutting is a process in which materials are cut in a _____

(A) straight lines
(B) fold marks
(C) specific patterns
(D) ink marks
(E) Answer not known

92. A method of binding in which the entire book is sewn as a single unit, instead of as individual sections

(A) Saddle sewing
(B) Side sewing
(C) Shingling
(D) Pebbling
(E) Answer not known

93. The process of removing small slots of the paper in the back of the fold, which allow the adhesive to penetrate further into the spine for a stronger bond

(A) Thread sealing
(B) Burst binding
(C) Comb binding
(D) Spiral binding
(E) Answer not known

94. During creasing and folding process, where does the 'bead formation' occur?

(A) On the center of the paper grain

(B) On the outer convex edge of the fold

(C) On the inside convex surface of the paper

(D) On the inside concave edge of the fold

(E) Answer not known

95. Gathering machines have feeding stations called _____ for each different signature.

(A) Hoppers

(B) Conveyors

(C) Joggers

(D) Collators

(E) Answer not known

96. In _____, the sections has been stitched and trimmed to demonstrate how much of the margin is lost after binding and to show the amount of compensation needed for creep.

(A) Folding dummy

(B) Binding dummy

(C) Imposition layout

(D) Mechanical layout

(E) Answer not known

97. Bending and creasing sheets without regard to alignment of headers, footers and other images throughout the signatures are _____.

(A) Folding to paper

(B) Folding to print

(C) Folding to Cut

(D) Folding to endurance

(E) Answer not known

98. In buckle folding, the sheet bumps against the _____ so that due to the movement of folding rollers a buckle is created.

(A) Back gauge
(B) Folding knife
(C) Buckle stop
(D) Conveyor
(E) Answer not known

99. The binding method used for case binding is _____

(A) Saddle and side-wire stitching
(B) Thread sewing
(C) Perfect binding
(D) Mechanical binding
(E) Answer not known

100. A back gauge that is divided into two or more segments is called a _____.

(A) Split gauge
(B) Clamp
(C) Side gauge
(D) Jogg
(E) Answer not known

101. The _____ drying method is used with evaporative inks.

(A) Jet air
(B) Infra-red
(C) Ultraviolet
(D) Electron beam
(E) Answer not known

102. The percentage of ink deposit controlled by the squeegee is _____.

(A) 20%
(B) 50%
(C) 30%
(D) 70%
(E) Answer not known

103. The _____ devices use air pressure to exert force to tension screen fabric.

(A) Pneumatic tensioning
(B) Hydraulic tensioning
(C) Mechanical tensioning
(D) Hydro-Mechanical tensioning
(E) Answer not known

104. The process of removing both ink and stencil from the screen fabric after a printing run in order to reuse the fabric for a later job.

(A) Scoop coater
(B) Reclaiming
(C) Roughening
(D) Abrading
(E) Answer not known

105. A _____ uses conveyorized wire racks to transport sheets at a rate slow enough to allow air drying to occur before it is stacked.

(A) Infra red curing
(B) Jet air dryer
(C) Cascade dryer
(D) Wicket dryer
(E) Answer not known

106. The first section of the flexo press is called as _____.

(A) Unwind section
(B) Printing section
(C) Dryer section
(D) Rewind section
(E) Answer not known

107. The appearance of faint replicas of images in undesirable places on the substrate is known as

(A) Set off
(B) Blocking
(C) Show-through
(D) Ghosting
(E) Answer not known

108. The number of engraved cells per linear inch on an anilox roll is called as

(A) Cell count
(B) Cell depth
(C) Cell volume
(D) Dots per inch
(E) Answer not known

109. In flexography inking system, the _____ is positioned parallel to and set at a 30 degree angle to the surface of the anilox roll.

(A) Fountain roller
(B) Doctor blade
(C) Tympan bar
(D) Rider roller
(E) Answer not known

110. The heart of the flexo inking system is _____.

(A) Anilox roller
(B) Fountain roller
(C) Rider roller
(D) Distribution roller
(E) Answer not known

111. In _____, every well on a cylinder has exactly the same opening size and vary in depth.

(A) Lateral hard dot process
(B) Halftone gravure design
(C) Conventional gravure design
(D) Direct transfer method
(E) Answer not known

112. _____ is a term used to describe the process of increasing the cylinder diameter incrementally in each press unit.

(A) Cylinder variance
(B) Cylinder plating
(C) Cylinder stepping
(D) Cylinder chroming
(E) Answer not known

113. In _____ process, a light sensitive mask is sprayed over the cylinder surface and exposed by directing light through a halftone positive.

(A) Diffusion etch
(B) Direct transfer
(C) Electromechanical
(D) Laser cutting
(E) Answer not known

114. In gravure process, _____ is a correction process to remove an engraved image or a below surface damage.

(A) Staging
(B) Spot plating
(C) Burnishing
(D) Galvanizing
(E) Answer not known

115. The _____ process transfers an image from sunken areas cut into the surface of a cylinder.

(A) Screen printing
(B) Offset printing
(C) Intaglio printing
(D) Letterpress printing
(E) Answer not known

116. The device which senses and removes web slack by controlling the paper reel brake in web offset is

(A) Metering Roller
(B) Automatic Splicer
(C) Dancer Roller
(D) Zero Splicer
(E) Answer not known

117. Name the web-steering device which has four rollers arranged in a box shape for web control.

(A) Box-tilt
(B) Web-aligner
(C) Web-track
(D) Steering wheel
(E) Answer not known

118. The action of the sticky, inked blankets, which causes the web to adhere to one or both blankets on the unit past the point of impression is known as

(A) Blanket pull
(B) Blanket regain
(C) Blanket push
(D) Elastic recovery
(E) Answer not known

119. A device which contains series of variable speed rollers followed by a second dancer roller is known as _____.

(A) A flying splicer
(B) Web tensioner
(C) Dancer roller
(D) Zero speed splicer
(E) Answer not known

120. In infeed unit, name the device which controls the side to side positioning of the infeeding web?

(A) Roll stand
(B) Splicer
(C) Web steering device
(D) Web tensioner
(E) Answer not known

121. Compared to Incline Presses, Stack type presses require.

(A) More floor space
(B) Less floor space
(C) Equal floor space
(D) Large volume of space
(E) Answer not known

122. In web offset press, where the unprinted rolls of paper are mounted is known as

(A) Infeed Unit
(B) Delivery Unit
(C) Sheeter Unit
(D) Dryer Unit
(E) Answer not known

123. In web offset press configuration an assembly that includes inking system, dampening system, plate cylinder, blanket cylinder and impression cylinder are called as

(A) Printing Console
(B) Printing Couple
(C) Printing Assembly
(D) Printing Process
(E) Answer not known

124. Find the correct statement regarding automatic plate fixing.

1. The circumferential and lateral register adjustment is very poor.
2. The cost of the plate guidance in the catridge system is relatively high.
3. This system increased the make ready time.

(A) 1 only
(B) 2 only
(C) 3 only
(D) 1, 2 and 3
(E) Answer not known

125. Find incorrectly paired cutting principle

(1) Knife cut – The upper circular knife is fitted against lower circular knife

(2) Shear cut – The upper knife is pressed on to the lower knife

(3) Burst cut – There is no counter pressure tool to the knife

(A) (1) only (B) (2) only

(C) (3) only (D) (1), (2) and (3)

(E) Answer not known

126. Which of the following are correctly paired?

(1) Form rollers – Non driven rollers

(2) Oscillators – Distribute ink laterally across the press

(3) Repeat flaws – Caused by varying roller diameter.

(A) (1) and (2) only (B) (2) and (3) only

(C) (1) and (3) only (D) (1), (2) and (3) only

(E) Answer not known

127. The major purpose of perforator in a folder is:

(A) for Accurate fold line (B) to create tear-out

(C) to soften paper (D) to adjust headstop gap

(E) Answer not known

128. Which of the following statement is/are true about controlling over all ink feed adjustment?

(i) Dwell time of the ductor roller against oscillator/distributor

(ii) Speed or amount of fountain roller rotation.

(iii) In the intermittent fountain roller, the degree of rotation is adjusted with a ratchet mechanism.

(A) (i) and (ii) are true
(B) (i) and (iii) are true
(C) (ii) and (iii) are true
(D) (i) only true
(E) Answer not known

129. In alkaline dampening system the purpose of sequestering agent is _____.

(A) Prevent foaming
(B) Prevent calcium precipitation
(C) Preserve pH at 4.5
(D) Preserve fungi
(E) Answer not known

130. _____ ink are harder to handle on press, often requiring steady agitation to maintain fluidity in the pan.

(A) Highly dilatant
(B) Highly thixotropic
(C) Highly viscoelastic
(D) Highly ionic
(E) Answer not known

131. Match the following :

(a)	Web grid roller	1.	Slit to web into ribbons
(b)	Perforator	2.	Set against RTF
(c)	Slitter wheel	3.	Eliminate gusseting
(d)	Trolley roller	4.	Wrinkle free folds

	(a)	(b)	(c)	(d)
(A)	1	2	3	4
(B)	2	3	1	4
(C)	4	3	1	2
(D)	3	4	2	1

(E) Answer not known

132. In web offset machine _____ is used to read the temperature of existing paper from the chill roll.

(A) Potentiometer

(B) Surface tensiometer

(C) Pyrometer

(D) Tachometer

(E) Answer not known

133. Choose the correct statement.

(a) Pattern gluers eliminate folding operations.

(b) Spot gluers apply adhesive only when required.

(c) Extrusion gluers apply adhesive continuously using hypodermic needles.

(A) (a) only
(B) (a) and (b) only
(C) (a) and (c) only
(D) (b) and (c) only
(E) Answer not known

134. Why are water-based varnishes used in commercial printing?

(A) They contain a high amount of solvent
(B) They permanently soften the paper
(C) They are environmentally friendly
(D) They require UV lamps for curing
(E) Answer not known

135. Automatic blanket washing devices reduce _____ during cleaning.

(A) Manual intervention
(B) Press ergonomics
(C) Plate thickness
(D) Paper width
(E) Answer not known

136. Why is register measurement important in web offset printing?

(A) To ensure proper alignment of printed colours
(B) To increase ink viscosity
(C) To reduce paper brightness
(D) To increase press speed only
(E) Answer not known

137. How do hickey removers contribute to print quality?

(A) By increasing Ink viscosity
(B) By reducing blanket tension
(C) By removing dust particles
(D) By increasing press speed
(E) Answer not known

138. Identify the incorrectly paired option :

(a) In-line inspection – Real-time monitoring
(b) Production monitoring – Workflow analysis
(c) PDF – Image Compression format
(d) Remote Control – Press Adjustment

(A) (a)
(B) (b)
(C) (c)
(D) (d)
(E) Answer not known

139. Arrange the workflow in correct order

1. Plate Imaging
2. Prepress data preparation
3. Printing
4. Post Press finishing

(A) 2-1-3-4 (B) 1-2-3-4
(C) 2-3-1-4 (D) 3-2-1-4
(E) Answer not known

140. Why is CIP3 preferred over manual data transfer in modern printing?

(A) It increase manual intervention

(B) It reduces communication between departments

(C) It limits digital workflow

(D) It enables automated information exchange throughout production

(E) Answer not known

141. Match the terms related to feedboard components in sheetfed offset press

(a)	Sheet guide rods	1.	Run of feeder tape
(b)	Feeder tapes	2.	Guide into front lays
(c)	Hold down fingers	3.	Transport press sheet
(d)	Rotary brushes	4.	Hold tail end corners of sheet

	(a)	(b)	(c)	(d)
(A)	3	4	1	2
(B)	3	4	2	1
(C)	4	3	1	2
(D)	4	3	2	1

(E) Answer not known

142. A sheet reaches the front lays after the permissible timing window. Which safety device should trigger first in a sheet fed offset press to avoid errors?

(A) Double sheet detector

(B) No sheet detector

(C) Late sheet detector

(D) Side lay sensor

(E) Answer not known

143. The run-out of the cylinders or bearers are checked using

(A) Magnetic base dial indicator

(B) Hygrometer

(C) Durometer

(D) Pyrometer

(E) Answer not known

144. Assertion [A] : In offset lithography, ink is transferred from plate to an intermediate blanket and then from blanket to substrate.

Reason [R] : Offsetting the inked image before transferring results in a cleaner, sharper image.

(A) [A] is true, [R] is false

(B) Both [A] and [R] are true; [R] is correct explanation of [A]

(C) [A] is false, [R] is true

(D) Both [A] and [R] are true, but [R] is not correct explanation of [A]

(E) Answer not known

145. Choose the correct arrangement of components in sheet separation unit of a sheetfed offset press by their position from gripper end to rear end of paper.

(A) Forwarding suckers, Pickup suckers, Feeder Pressure foot

(B) Pickup suckers, Forwarding suckers, Feeder Pressure foot

(C) Feeder pressure foot, Forwarding suckers, Pickup suckers

(D) Forwarding suckers, Feeder Pressure foot, Pickup suckers

(E) Answer not known

146. Choose the correct statements about sheetfed offset printing.

(i) The characters on the printing blanket are right reading

(ii) Lithographic printing is based on chemical repulsion principle between ink and water

(iii) The abrasive effect of paper on plate is avoided by using intermediate blanket

(A) (i) and (ii) only
(B) (ii) and (iii) only
(C) (i) and (iii) only
(D) (i), (ii) and (iii) only
(E) Answer not known

147. Front lay height above the feed board varies according to

(A) Minimum sheet size
(B) Maximum sheet size
(C) Sheet thickness
(D) Sheet opacity
(E) Answer not known

148. In sheetfed offset press, the anilox inking unit _____.

(A) uses high viscosity inks
(B) has large number of ink zones
(C) is in stable equilibrium after few revolutions itself
(D) results in no dot gain in the printed sheet
(E) Answer not known

149. Choose the correct method to shorten the print length on bearer - contact presses

(A) Increase plate height by adding packing
(B) Increase blanket height by adding packing
(C) Increase ink roller pressure setting to plate
(D) Increase the gear ratio of plate and blanket cylinders
(E) Answer not known

150. Which of the following terms about sheetfed offset press inking system is/are incorrectly paired?

1. Over inking – Too much oscillation
2. Rider roller – Lowest speed
3. Long ink train – Evenness of ink film
4. Ductor shock – Between ductor and oscillator roller

(A) 1 and 2 only
(B) 1 and 3 only
(C) 2 and 3 only
(D) 2 and 4 only
(E) Answer not known

151. In offset printing, the non-image areas are _____

(A) Oleophilic
(B) Hydrophilic
(C) Hydrophobic
(D) Lipophilic
(E) Answer not known

152. In offset presses, buildup on rubber rollers or blanket that prevents proper adhesion and distribution of ink is called _____

(A) Roller streaks
(B) Set off issue
(C) Glazed roller
(D) Double printing issue
(E) Answer not known

153. _____ is an imperfection in printing due to a particle on the blanket or sometimes, the plate.

(A) Piling
(B) Linting
(C) Picking
(D) Hickey
(E) Answer not known

154. In a sheetfed offset press, at the delivery unit, which of the following are responsible for papers being delivered neatly stacked in pileboard?

(A) impression cylinder and impression cylinder grippers
(B) rear joggers, side joggers, front stopper and back stopper
(C) rollers and grippers
(D) dampening unit and fountain duct
(E) Answer not known

155. The measure of the concentration of hydrogen ions in the dampening solution in offset printing is known as

(A) dampening
(B) printability
(C) pH
(D) DPI
(E) Answer not known

156. _____ screen tints are more sensitive to dot gain.

(A) Coarse screen tint
(B) Fine screen tint
(C) Solid patches
(D) Overprint patches
(E) Answer not known

157. Arrange the following process sequence in sheet-fed offset printing.

1. Delivery of printed sheet
2. Dampening of plate
3. Ink transfer to plate
4. Impression on paper

(A) $2 \rightarrow 3 \rightarrow 4 \rightarrow 1$ (B) $3 \rightarrow 2 \rightarrow 4 \rightarrow 1$

(C) $2 \rightarrow 4 \rightarrow 3 \rightarrow 1$ (D) $4 \rightarrow 2 \rightarrow 3 \rightarrow 1$

(E) Answer not known

158. Proper control of Solid Ink Density (SID) helps maintain consistent _____ throughout the print run.

(A) Sheet size (B) Paper weight

(C) Colour strength (D) Gripper pressure

(E) Answer not known

159. How does the use of a sheet-fed test form support process optimization?

(A) It increases the printing speed

(B) It verifies colour and registration

(C) It reduces paper consumption by changing sheet size

(D) It controls the conductivity of the fountain solution

(E) Answer not known

160. Cooling device in dampening system is of top most importance to overcome the problems, caused due to _____.

(A) Controlled temperature (B) Uncontrolled temperature

(C) Controlled pressure (D) Uncontrolled pressure

(E) Answer not known

161. What physical mechanism is primarily used in thermal processless plates to form the ink-receptive area upon laser exposure?

(A) Chemical silver halide development
(B) Photopolymerization requiring deep UV radiation ovens
(C) Thermal fusion or ablation of polymer particles
(D) Acid etching into aluminium substrate coating
(E) Answer not known

162. How the cleaning of chemistry free plates are done in a printing press?

(A) Inking Rollers
(B) Dampening Rollers
(C) Ink Duct Roller
(D) Ink Form Rollers
(E) Answer not known

163. How water based inks help in giving constant viscosity during press runs?

(A) Due to addition of chemicals
(B) Due to their low evaporation
(C) By removing pigments from the ink
(D) By adding dryer in formulation
(E) Answer not known

164. In a single sided printing, the 3 transfer cylinders act as conventional transfer cylinder-that is the _____ of the sheet is transferred to the next unit.

(A) Lead edge
(B) Trail edge
(C) Spine edged
(D) Fore edge
(E) Answer not known

165. Apart from environment sustainability how the recycled paper is identified.

(A) Smooth in texture
(B) Rougher in texture
(C) Whitish in colour
(D) Glossy in appearance
(E) Answer not known

166. The Copper surface has to be cut in the following cases, choose the correct statement.

(a) After plating
(b) When making base copper repairs
(c) In certain process technologies for regular production
(d) When copper layer is thick

(A) only (c) is correct
(B) (a) and (b) is correct
(C) only (b) is correct
(D) (a), (b), (c) and (d) are correct
(E) Answer not known

167. The purpose of gumming during plate processing is to

(A) To preserve the dimensional stability
(B) To prevent oxidation process
(C) To remove the image
(D) To increase plate hardness
(E) Answer not known

168. How internal plate setter produces high accuracy imaging when compared to other plate setters?

(A) Due to plate mounting on rotating drum

(B) Due to plate placed flat on a vacuum table

(C) Due to stable plate positioning

(D) Due to plate moving through imaging unit

(E) Answer not known

169. Arrange the following steps in correct order:

(a) Plate exposure

(b) Digital File preparation

(c) RIP processing

(d) Plate mounting on press

(A) (b) → (c) → (a) → (d)

(B) (b) → (a) → (c) → (d)

(C) (a) → (b) → (c) → (d)

(D) (a) → (c) → (d) → (b)

(E) Answer not known

170. Name the device used to convert complex page description into a device specific data format for CTP systems?

(A) Digital converter

(B) Raster Image Processor

(C) Spectrophotometer

(D) Densitometer

(E) Answer not known

171. State the function of Halftone wedge as a quality control aid in plate making?

(A) Measures tone value transfer

(B) Indicates ink density

(C) To check plate thickness

(D) Optimize laser focus

(E) Answer not known

172. ———————— results in loss of relief depth in image areas.

(A) Short face exposure
(B) Excessive face exposure
(C) Short development time
(D) Short back exposure
(E) Answer not known

173. Choose the correct statements regarding liquid photopolymer plates.

(a) They are produced by pouring liquid resin into a mold.

(b) They require UV exposure for hardening.

(c) It eliminates the need for plate washing.

(A) (a) only
(B) (a) and (b) only
(C) (a) and (c) only
(D) (b) and (c) only
(E) Answer not known

174. Assertion [A] : Flexography plate hardness influences print quality.

Reason [R] : Excessively soft plates may deform during printing.

(A) Both [A] and [R] are true, and [R] is the correct explanation of [A]
(B) Both [A] and [R] are true, but [R] is not the correct explanation of [A]
(C) [A] is true, but [R] is false
(D) [A] is false, but [R] is true
(E) Answer not known

175. After exposure, the ———————— is removed to reveal the image pattern in a flexographic photopolymer plate.

(A) Hardened emulsion
(B) Unhardened emulsion
(C) Vulcanized rubber
(D) Rubber sheets
(E) Answer not known

176. What is the function of the "exposure of the base side" in the photopolymer platemaking process?

(A) Softening the polymer
(B) Removing oxygen inhibition
(C) Defining image resolution
(D) Establishing floor thickness
(E) Answer not known

177. Assertion [A] : Etching is an essential step in rubber plate production.

Reason [R] : Etching lowers the non-image areas to create the required relief.

(A) Both [A] and [R] are true, and [R] is the correct explanation of [A]
(B) Both [A] and [R] are true, but [R] is not the correct explanation of [A]
(C) [A] is true, but [R] is false
(D) [A] is false, but [R] is true
(E) Answer not known

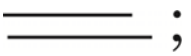
178. Direct stencil emulsions are made from synthetic polymers such as ———————— and ————————.

(A) PVA and PVAC
(B) PVDC and PVA
(C) PVDC and PVAC
(D) PVP and PVA
(E) Answer not known

179. ———————— solution is needed to properly clean the screen mesh prior to application of stencil.

(A) Streaking
(B) Degreasing
(C) Wrinkling
(D) Smudging
(E) Answer not known

180. The marginal mark for 'substituting or inserting semicolon' is ————————.

(A)  ;
(B) ; /
(C)  ;
(D)  ;
(E) Answer not known

181. In newspaper layouts, spaces left blank between two sets of texts, in order to separate news items and to enhance readability. These spaces are called

(A) margins
(B) border
(C) gutter
(D) column
(E) Answer not known

182. Which of the following is false about the usage of © copyright symbol, by a designer?

(A) symbol must be readable and printed cleanly

(B) symbol point size need not be same as rest of the text

(C) when used before a year, size must be x-height atleast

(D) symbol must always be given red colour

(E) Answer not known

183. In graphic design, initial caps are of the following types :

(A) small, large, capital

(B) raised cap, dropped cap

(C) word cap, sentence cap

(D) with space, with dot

(E) Answer not known

184. Which of the following are the two components of type 1 (or Post Script) fonts?

(A) letters and characters

(B) ascender and descender

(C) screen font and printer font

(D) line and curve

(E) Answer not known

185. The handmade blank replica of final printed product, using exact paper stock and folds is known as :

(A) Model paper

(B) Block diagram

(C) Dummy

(D) Sample diagram

(E) Answer not known

186. While preparing the layout of pages, grid layout technique is used. The components of grid layout are :

(A) Page, text, image area

(B) Horizontal and vertical scales and rules

(C) Dummy, fold, flap, window

(D) Margins, gutter, rows, columns

(E) Answer not known

187. _____ is used in workflow systems to manage high-resolution images through low-resolution previews.

(A) EPS

(B) PNG

(C) OPI

(D) JPEG

(E) Answer not known

188. Which file format is used for high-quality images in printing?

(A) GIF
(B) JPEG
(C) TIFF
(D) PNG
(E) Answer not known

189. In AM screening, the image is reproduced by changing the _____ of dots.

(A) position only
(B) color of paper
(C) size of dots
(D) shape of sheets
(E) Answer not known

190. Arrange the digital screening workflow.

1. Apply screen pattern
2. Process digital image
3. Generate halftone dots
4. Output for printing

(A) 2 – 1 – 3 – 4
(B) 1 – 2 – 3 – 4
(C) 2 – 3 – 1 – 4
(D) 3 – 2 – 1 – 4
(E) Answer not known

191. Screening in digital prepress is used to _____

(A) increase paper thickness

(B) convert continuous-tone image into dots

(C) dry printing ink

(D) cut printed sheets

(E) Answer not known

192. Match the following :

Column A	Column B
(a) Scanner	1. Digital image capture
(b) Digital camera	2. Hard-copy input device
(c) Image editing	3. Prepress files for printing
(d) Digital prepress	4. Improves image quality

	(a)	(b)	(c)	(d)
(A)	1	2	3	4
(B)	3	4	2	1
(C)	2	1	4	3
(D)	4	3	1	2

(E) Answer not known

193. The process of converting a photograph or artwork into digital form is called _____

(A) image compression

(B) image delivery

(C) image printing

(D) image acquisition

(E) Answer not known

194. Match the following terms :

(a) Inkjet proofer	1. input profile
(b) Perceptual rendering intent	2. output profile
(c) Digital camera	3. proofing
(d) Colorimetric rendering intent	4. photographic images

	(a)	(b)	(c)	(d)
(A)	2	4	3	1
(B)	2	4	1	3
(C)	4	2	3	1
(D)	4	2	1	3

(E) Answer not known

195. _____ is the process of positioning of pages on a press sheet, accounting for the nature and order of post-print operations.

(A) Preflighting
(B) Trapping
(C) Imposition
(D) Proofing
(E) Answer not known

196. _____ is used as the profile connecting space in color management system for output profiles.

(A) RGB
(B) CMYK
(C) Pantone
(D) CIELAB
(E) Answer not known

197. Assertion [A] : The recommended screen angle for black is 90°

Reason [R] : Moiré is created by improper screen angle.

(A) [A] is true but [R] is false

(B) Both [A] and [R] are true, and [R] is the correct explanation of [A]

(C) [A] is false, [R] is true

(D) Both [A] and [R] are true, but [R] is not the correct explanation of [A]

(E) Answer not known

198. A red object reflects in _____ range of spectrum.

(A) 300 to 400 nm

(B) 400 to 500 nm

(C) 500 to 600 nm

(D) 600 to 700 nm

(E) Answer not known

199. In the RIP process, _____ is one of the parameter selected for creating the output.

(A) scanning resolution

(B) file size

(C) screen angle

(D) bit depth

(E) Answer not known

200. Choose the correct sequence of processes in prepress workflow.

(A) designing → preflighting → imposition → RIP processing

(B) designing → imposition → preflighting → RIP processing

(C) preflighting → designing → imposition → RIP processing

(D) preflighting → designing → RIP processing → imposition

(E) Answer not known