

118/24

Question Booklet Sl. No.

Question Booklet Alpha Code

A

A

Total Number of Questions : 100

Time : 90 Minutes

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C & D**.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator **IMMEDIATELY**.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices **(A), (B), (C)** and **(D)** having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

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1. Mention the term that received the print.
A) Image carrier
B) Ink
C) Plate
D) Printing substrate
2. In which type of printing is ink transferred through the small pores ?
A) Intaglio
B) Gravure
C) Offset printing
D) Screen printing
3. Who invented the lithographic plate ?
A) Aloise Senefelder
B) Ira W. Rubel
C) Johannes Gutenberg
D) None of the above
4. The preparation of 'artwork' is which step in the print production work flow ?
A) Idea and concept
B) Creative work
C) Creative production
D) Industrial production
5. Flat bed cylinder press is the example of
A) Offset
B) Gravure
C) Relief printing
D) Nip printing
6. Which equipment is used for electronic colour separation given below ?
A) Scanner
B) Printing down frame
C) Lamination machine
D) CTP
7. Red filter is used to produce _____ plate.
A) Orange
B) Magenta
C) Cyan
D) None of the above
8. Choose the correct wavelength of visible light given below.
A) 500 – 600 nm
B) 700 – 800 nm
C) 400 – 600 nm
D) 400 – 700 nm
9. Choose the name of the equipment given below, which has PMT as its main part.
A) Drum scanner
B) Handheld scanner
C) Flatbed scanner
D) Camera
10. Which light represents the mixture of all colors ?
A) Black
B) White
C) Red
D) Green

11. Name the colour measurement device used in offset printing.
 - A) Register mark
 - B) Densitometer
 - C) Dot gain scale
 - D) Magnifying glass
12. Choose which one is the printing problem given below.
 - A) Ghosting
 - B) Chalking
 - C) Emulsification
 - D) Picking
13. A printing sheet shows an unwanted accumulation of halftone dots that result in a smeared image. Can you identify the problem ?
 - A) Tinting
 - B) Setoff
 - C) Slurring
 - D) Hickies
14. Name the mechanism used to replace a new roll of paper in the feed cycle without stopping the press.
 - A) Dancer roller
 - B) Drier and chill roller
 - C) Splicer
 - D) Turner bar
15. An expansion of GATF is
 - A) Graphic Arts Technical Foundation
 - B) Great Arts Technical Formula
 - C) Graphic design Arts Technical Formula
 - D) Graphics Arts Technology Foundation
16. The operations _____ refers to the procedures preparing the press to print a particular job.
 - A) Pre-make ready
 - B) Make ready
 - C) Prepress
 - D) Post press
17. Find the operation which is not included in pre make ready checks.
 - A) Check the pressure settings of all rollers and cylinders
 - B) Check the pH of the fountain solution
 - C) Examine the image and non-image areas of the plate to be printed
 - D) Positioning the image on the paper

18. pH range of fountain solution for offset printing
 A) 6 – 7
 B) 2.5 – 4
 C) 4.5 – 5.5
 D) 6.5 – 7.5
19. Double Sheet detector is a part of _____ unit of an offset machine.
 A) Registration
 B) Feeding
 C) Printing
 D) Delivery
20. The hardness of a blanket is measured by _____ instrument.
 A) Durometer
 B) Vernier Caliper
 C) Screw Gauge
 D) Barometer
21. The gradual disappearance of the image areas from the plate in offset printing is called
 A) Slurring
 B) Ghosting
 C) Swelling
 D) Plateware
22. Select the wrong statement/statements about crease formation on paper.
 1. Incorrect settings on the sheet feeder.
 2. Incorrect air-pressure setting at the point of sheet transfer.
 3. Printing pressure between the rubber and impression cylinder is too high.
 4. Loose fitting plate on cylinder.
 A) 1 only
 B) 1 and 2
 C) 4 only
 D) 1, 2 and 3
23. In Ink, VOC is the abbreviation for
 A) Volatile Organic Compounds
 B) Visible Organic Compounds
 C) Volatile Inorganic Compounds
 D) None of the above
24. The _____ occurs when small particles torn out of the surface of the paper during printing process.
 A) Electrostatic Assist
 B) Piling
 C) Hickies
 D) Picking
25. Chalking is an example for _____ in offset printing.
 A) Ink problem
 B) Paper problem
 C) Printing problem
 D) Blanket problem

26. Identify the term that is usually a distinct text-only typographic treatment of the name of a company, institution or product name.
- A) Type Style
 - B) Type Font
 - C) Font Forge
 - D) Word Mark
27. The pattern created when all four-color halftone conventional screens are placed at the traditional angles is called
- A) Moiré pattern
 - B) Checkered pattern
 - C) Rosette pattern
 - D) Grid pattern
28. Name the process used for removal of material from the surface of an object by vaporization, chipping or other erosive processes.
- A) Ablation
 - B) Belting
 - C) Altercation
 - D) Absorbation
29. Which is the proofreading mark for “let it stand” where the change should be disregarded and the original is correct ?
- A) Pret
 - B) Stet
 - C) Still
 - D) None of the above
30. Software that acts as an intermediary between a CPU and a peripheral device
- A) Device terminal
 - B) Peripheral interface
 - C) Device driver
 - D) Boot
31. What is the file extension of Adobe InDesign software ?
- A) Iddx
 - B) AIDD
 - C) INdc
 - D) Indd
32. Name the term where first line of a paragraph that appears at the bottom of a page or column, with the rest of the paragraph on the next page or column.
- A) Orphan
 - B) Widow
 - C) Swash
 - D) Single measure
33. Which of these is an ultra-high resolution large-format computer output device for CTF ?
- A) Plate Setter
 - B) Image Setter
 - C) CT Setter
 - D) Laser Printer

34. Device that modifies information into the required transmission format
- A) Bridging
 - B) Decoder
 - C) ESCON
 - D) Encoder
35. Identify the digital printing process.
- A) Gravure
 - B) PrintJet
 - C) Inkjet
 - D) None of the above
36. Name the term that refers to relative thickness of text of a given size.
- A) Font tone
 - B) Font weight
 - C) Modern
 - D) Glyphs
37. What could be the reason for uneven image transfer in offset printing ?
- A) Improper bearer
 - B) Blanket smash
 - C) Insufficient packing of plate
 - D) All the above
38. Name the transmission system capable of carrying many channels of communication simultaneously by modulating them on one of several carrier frequencies.
- A) Broadcast Domain
 - B) Broadband
 - C) DAC-dual
 - D) APPN
39. Ink pigment does not bind to stock, identify this defect.
- A) Chalking
 - B) Descaling
 - C) Blinding
 - D) Piling
40. What is the term used for printing material such as planned film or plates used on a previous job which are retained pending a possible reprint ?
- A) Archive Material
 - B) Standing Matter
 - C) Backup Plates
 - D) Reprint Stock
41. A computer program that is written and design for a specific need or purpose
- A) Application program
 - B) Applette
 - C) Buffer
 - D) DAC
42. Which is the mark that is added to a letter to specify a specific accent or pronunciation ?
- A) Cespel
 - B) Arc
 - C) Diacritic
 - D) Bowl

43. Succeeding ink printed does not adhere to previously dried ink. Why ?
- A) Base ink high in hard waxes
 - B) Both A) and C)
 - C) Delay between colors is too long
 - D) None of the above
44. When two objects of different color overlap in an artwork. Some times, the bottom color is removed. Name this process.
- A) Simulate
 - B) Overlap
 - C) Patchette
 - D) Knock out
45. Which of these is a computer's startup operation ?
- A) Boot
 - B) Starter
 - C) FIPS-60
 - D) Boyanet
46. The term aniline printing is related to
- A) Flexography
 - B) Rotary press
 - C) Relief printing
 - D) Screen printing
47. The word paper is derived from
- A) Bamboo
 - B) Papyrus
 - C) Cellulose
 - D) Pulp
48. Which of the following is bio-degradable inks ?
- A) Waterless offset inks
 - B) Invisible inks
 - C) Magnetic inks
 - D) Soy inks
49. Ideal pH of dampening solution is
- A) 3.5 to 4.5
 - B) 4.5 to 5.5
 - C) 5.5
 - D) 7
50. Select Royal Indian Paper size.
- A) 15" × 20"
 - B) 22" × 30"
 - C) 23" × 28"
 - D) 20" × 25"

51. Which of the following is not essential for ink drying ?
- A) Polymerisation
 - B) Viscosity
 - C) Oxidation
 - D) Evaporation
52. Weight of 1000 sheets of paper of standard sheet size is known as
- A) Basis weight
 - B) M. Weight
 - C) GSM
 - D) Ream
53. The pigments are derived from living organisms is known as
- A) Organic pigments
 - B) Inorganic pigments
 - C) White pigments
 - D) Black pigments
54. Which of the following is the most common way of generating copy for printing ?
- A) Computer
 - B) Hot type
 - C) Scanning
 - D) Photocomposing
55. The earliest form of a book was created by the Sumerians on
- A) Clay tablets
 - B) Papyrus
 - C) Pulp
 - D) Combination of these
56. Which type of printing is based on the principle "Oil and Water does not mix together" ?
- A) Hydrophilic
 - B) Oleophilic
 - C) Waterless
 - D) Planography
57. Which of the following statements about anilox rolls is not true ?
- A) The surface of the anilox roll is engraved with cells
 - B) The ink capacity of each cell is calculated in billions of cubic microns
 - C) The larger the cells, the greater the volume of ink carried to the plates
 - D) The number of Cells Per square inch (CPI) does not vary

58. Below are listed some type of blankets :
- i. Hard blanket – 80°A to 85°A hardness
 - ii. Soft blanket – 40°A to 45°A hardness
 - iii. Medium blanket – 65°A to 70°A hardness
 - iv. Sandwich blanket – 70°A to 80°A hardness

Which of the above answers are correct ?

- A) i, ii, iii
 - B) i, ii, iv
 - C) i, iii, iv
 - D) ii, iii, iv
59. Dandy rollers is associated with
- A) Offset Machine
 - B) Fordrinier Machine
 - C) Folding Machine
 - D) Press Console
60. _____ are solvents added to screen ink to alter viscosity and slow drying time.
- A) Retarders
 - B) Thinners
 - C) Wash up
 - D) All of the above
61. A unique mechanism for bringing a new roll of paper into the feed cycle without stopping the press is called
- A) Web break
 - B) Combination folding
 - C) Flying splicer
 - D) Inline stitching
62. The image area of the plate will not accept ink is called
- A) Ghosting
 - B) Blinding
 - C) Piling
 - D) Hickies
63. A chain delivery system uses this device to draw paper from the press and release it to the delivery pile
- A) Sucker feet
 - B) Stationary guides
 - C) Grippers
 - D) Jogging guides
64. How many sheets are in a ream of paper ?
- A) 1000
 - B) 100
 - C) 500
 - D) 24

65. Example for non-impact printers are

- i. Inkjet printing
- ii. Thermography
- iii. Sublimation printing
- iv. Porous printing

Which of the above answers are correct ?

- A) i, ii, iii
- B) i, iii, iv
- C) i, ii, iv
- D) All are correct

66. Squeegees blade is made of

- A) Wood
- B) Aluminium
- C) Rubber
- D) Iron

67. The process that impresses a translucent design in paper is

- A) Embossing
- B) Water marking
- C) Calendering
- D) Furnishing

68. Which of the following would be an acceptable pH value for a fountain solution ?

- A) 9
- B) 4.5
- C) 3.5
- D) 7

69. Below are listed some statements. Select which one of the following is not correct ?

- A) Graphic images that contain pixels are called raster images
- B) A raster file is usually larger than a vector graphic image file
- C) GIF is an example of vector image file type
- D) Photoshop is a raster image editing program

70. Select the device used to control the speed of elevation of the pile table.

- A) Pile height governor
- B) Pile feeder
- C) Sucker foot
- D) Conveyor belts

71. Roller hardness is measured with a

- A) Densitometer
- B) Colourimeter
- C) Spectrophotometer
- D) Shore-durometer

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72. Select the substances added to dampening solution to lower its surface tension.

- A) Glycerin and glycol
- B) Gum arabic and magnesium nitrate
- C) Antifoaming agents and alcohol
- D) Sensitized emulsion

73. Which one of the following is not correct ?

Offset printing is a planographic printing process in which

- A) the image area and the non image area are on a same plane in the image carrier
- B) works under the principle oil and water repels each other
- C) the inked plate transferred the image to a rubber covered cylinder
- D) the ink is transferred from a sunken surface

74. Currency or bank notes are printed on specially tough

- A) Bristol paper
- B) Rag based paper
- C) Bond paper
- D) Synthetic paper

75. Presses that print on both sides of paper at the same time are known as

- A) Digital offset presses
- B) Perfecting presses
- C) Waterless offset presses
- D) Letter press

76. Which of the following is a true statement about a common-impression cylinder ?

- A) One large impression cylinder is central to the printing system
- B) The cylinder is surrounded by a group of printing units
- C) Each printing unit prints a separate colour on the web as it travels between the blanket cylinders and the common impression cylinder
- D) All of the above

77. What is the largest market for flexography ?

- A) Wall paper
- B) Milk cartons
- C) Corrugated boxes
- D) Plastic grocery bags

A

78. Blanket-to-blanket web presses uses how many printing couple to print on both sides of the web simultaneously ?
- A) 4
B) 2
C) 3
D) 1
79. Cotton is the pure form of
- A) Protein
B) Vitamins
C) Cellulose
D) Pulp
80. _____ is considered the inventor of modern gravure printing.
- A) Alois Senefelder
B) Johannes Gutenberg
C) Ina Rubel
D) Karl Klietsch
81. _____ adhesive is used in perfect binding operations.
- A) Dispersion
B) Hot-melt
C) Binding glue
D) Binding paste
82. Adding a thin strip of cotton or silk at top and bottom of the book block spine is called
- A) End paper
B) Book mark
C) Edge decoration
D) Headbands
83. _____ is assembling the book cover by joining the cover parts.
- A) Binding
B) Case making
C) Stitching
D) Sewing
84. _____ aids to visually check whether the gathered sections are in right order.
- A) Gathering marks
B) Backstep marks
C) Registrations marks
D) Folding marks
85. _____ refers to the fixing of a single leaf to the outside of the section.
- A) Inserting
B) Insetting
C) Tipping-in
D) Tipping-on
86. In _____ process, the folded sections are placed inside each other in the 'V' form.
- A) Saddle stitching
B) Side-stitching
C) Perfect binding
D) Side-sewing
87. _____ helps in attaching the book block to book cover.
- A) Cover paper
B) Section paper
C) End paper
D) Headbands

95. Which of the following statements is/are true ?
- Glass can be 100% recycled.
 - Metal can be moulded into variety of shapes.
 - Poly Vinyl Chloride is used for packaging carbonated beverages.
- A) i only B) ii only
C) iii only D) i and ii only
96. Which section is obtained when a vertical plane intersects both halves of a double right circular cone but does not pass through the apex of the cones ?
- A) Circle B) Ellipse
C) Parabola D) Hyperbola
97. The complimentary and supplementary angles of 38° are _____ and _____ respectively.
- A) $52^\circ, 148^\circ$ B) $58^\circ, 142^\circ$
C) $142^\circ, 52^\circ$ D) $52^\circ, 142^\circ$
98. Match the following :
- | | |
|---------------|------------------------|
| a. Resistor | 1. Three layers |
| b. Capacitor | 2. Rectifier |
| c. Diode | 3. Passive component |
| d. Transistor | 4. Limits current flow |
- A) a - 4; b - 3; c - 2; d - 1
B) a - 3; b - 2; c - 4; d - 1
C) a - 2; b - 3; c - 4; d - 1
D) a - 1; b - 3; c - 2; d - 4
99. _____ gears are used for power transmission in shafts intersecting at right angles.
- A) Spur B) Helical
C) Bevel D) Worm
100. Which of the following statements are true ?
- Bearings support axial and radial load of shafts.
 - Ball bearings are not antifriction bearings.
 - Bearings require lubrication.
- A) i and ii only B) ii and iii only
C) i and iii only D) i, ii and iii

Space for Rough Work

