

**GAERF® PrintED® Exam**  
**Sample Questions**

**Introduction to Graphic Communications – Sample Exam Questions**

1. The printing process that uses an inked, raised image that is pressed against paper is:
  - a. **Letterpress**
  - b. Gravure
  - c. Offset
  - d. Digital printing
  
2. The printing process of spraying ink drops through a computer-controlled nozzle is:
  - a. Thermography
  - b. Screen printing
  - c. **Ink jet**
  - d. Engraving
  
3. Jobs requiring numbering, like tickets or forms, are most often done using the process of:
  - a. Gravure
  - b. Digital printing
  - c. Offset
  - d. **Letterpress**
  
4. To succeed in the graphic arts, a skilled technical employee must be able to:
  - a. Write and design
  - b. Supervise the work of others
  - c. **Operate sophisticated machinery**
  - d. Start a new business
  
5. The part of the offset press that holds and supplies ink to the inking rollers is the:
  - a. Doctor blade
  - b. **Ink fountain**
  - c. Plate cylinder
  - d. Water fountain
  
6. A thin sheet of paper, metal or polyester which carries the image is called the:
  - a. Blanket
  - b. Offset
  - c. **Plate**
  - d. Impression cylinder
  
7. The part of the offset press that holds and supplies water to the dampening rollers is the:
  - a. Doctor blade
  - b. Plate cylinder
  - c. Ink fountain
  - d. **Water fountain**
  
8. What section of the job ticket contains information about various actions such as set changes only, set entire job, paste-up?
  - a. **Type/Art**
  - b. Vendors
  - c. Job specifications
  - d. Press

9. Software used in preparation to make a plate is called \_\_\_\_\_ software.
- a. Preflight
  - b. Page-layout**
  - c. Image-setting
  - d. Operating system
10. An image made up of independent lines, shapes or objects that are each defined by mathematical formulas is referred to as a:
- a. Pixel image
  - b. Raster image
  - c. Halftone
  - d. Vector graphic**
11. Type of scanner that uses a roller mechanism to pull a photograph over a stationary optical device and reads the image to be manipulated in image software:
- a. Handheld
  - b. Slide
  - c. Sheet fed**
  - d. Drum
12. A folding dummy is used for:
- a. Saving time on the folding machine.
  - b. Determining the appropriate artwork to include in the job.
  - c. Disposal of waste materials.
  - d. Helping designers and printers determine the proper page imposition for the press.**
13. The system in a typical offset press that controls the paper after the image is printed by stacking to allow further processing is the:
- a. Feeder system
  - b. Delivery system**
  - c. Register system
  - d. Inking system
14. When using tools to make adjustments on moving parts, lubricating or removing paper jams from the press, one should:
- a. Make sure the inking system is full.
  - b. Notify management.
  - c. Make sure the press is turned off and unplug the electrical and/or power cord.**
  - d. Empty the feeder system.
15. When preparing the cylinder system for a job, it is important to:
- a. Detach the plate from plate cylinder.
  - b. Ink the blanket surface.
  - c. Clean the impression cylinder surface.**
  - d. All of the above.

16. A disadvantage of the offset process is:
- a. **Needs more attention to maintain image consistency than other processes.**
  - b. Difficulty reproducing photographs.
  - c. High costs for typesetting.
  - d. Difficulty making and storing plates.
17. Identify the proper paper for books, brochures, magazines, and posters.
- a. Writing
  - b. **Book**
  - c. Newsprint
  - d. Card stock
18. Tools and materials needed for padding include:
- a. Folder, drill and staples
  - b. Cylinders, blankets, glue
  - c. Jogger, plastic binding and laminator
  - d. **Clamp or weight, padding compound and brush**
19. There are \_\_\_\_\_ points in a pica.
- a. 10
  - b. **12**
  - c. 14
  - d. 16
20. The space between the lines of type is called:
- a. Font
  - b. Wordspacing
  - c. Kerning
  - d. **Leading**
21. Class B fires involve:
- a. Combustible metals
  - b. **Flammable liquids**
  - c. Ordinary combustible materials
  - d. Electronic Equipment
22. Tonya ordered the following number of binding strips on different dates: 256, 62, 575, and 242. How many binding strips should she be billed for?
- a. 1138
  - b. 1137
  - c. 1136
  - d. **1135**
23. Express the following percent as a decimal:
- 16.8% =
- a. 1.68
  - b. 16.8
  - c. .0168
  - d. **.168**

24. The formula to determine the number of sheets to be cut for a printing job is:

- a. **Desired number of pieces divided by number of pieces obtained from one sheet.**
- b. Dimensions of sheets to be cut divided by desired number of pieces.
- c. Dimension of sheets multiplied by desired number of pieces.
- d. Dimensions of sheet multiplied by dimensions of piece.

25. One purpose of an MSDS sheet is:

- a. To provide instructions for operating a machine.
- b. **To inform the user of a material's physical properties or possible dangerous health effects.**
- c. Record how often a fire extinguisher has been used.
- d. None of the above.

## Digital File Preparation – Sample Exam Questions

1. The portion of the job ticket that refers to bluelines, color keys, cromalins, or press checks is:
  - a. **Proofs**
  - b. Paper
  - c. Bindery
  - d. Press
  
2. To find the optical center of a page:
  - a. Use the mathematical center by measuring the page from top to bottom.
  - b. Divide the page vertically into 3 parts.
  - c. **Divide the page vertically into 5 parts.**
  - d. Divide the page vertically into 4 parts.
  
3. Software used to edit or change a photographic image is called \_\_\_\_\_ software.
  - a. Mouse-driven
  - b. Clip art
  - c. Word-processing
  - d. **Image-editing**
  
4. The term, removable media, refers to:
  - a. Graphics that can be inserted or removed from a document.
  - b. Deleting duplicative text and graphics from a document.
  - c. Using clip art in a document.
  - d. **Disks, CDs and tapes used to store data that are inserted and removed from the computer.**
  
5. A color mode consisting of the additive primary colors of red, green and blue that create white when combined is called:
  - a. **RGB**
  - b. Color balance
  - c. CMYK
  - d. Hue
  
6. The invisible line marking the lower limit upon which type sits is called the:
  - a. Mean line
  - b. **Baseline**
  - c. Descender
  - d. Counter
  
7. Small caps are capital letters that are the same size as the \_\_\_\_\_ of the typeface:
  - a. **x-height**
  - b. Baseline
  - c. Mean line
  - d. Cap height

8. A particular type modification such as condensed, italic, bold, or bold italic:
- a. Typeface
  - b. Type family
  - c. Typestyle**
  - d. Font
9. This type of symbol is often used to indicate the time duration of an event.
- a. En dash**
  - b. Ellipsis
  - c. Ligature
  - d. Em dash
10. Software used to check page-layout files for potential printing problems before printing:
- a. Documenting
  - b. Preflight**
  - c. Image-editing
  - d. Pre-publication
11. A type of software that is used to edit or change a graphic image.
- a. Clip art
  - b. Image-editing**
  - c. Text-editing
  - d. Graphic
12. Good quality word-processing software will:
- a. Allow input of large text files.**
  - b. Have limited formatting features.
  - c. Prevent files from being merged.
  - d. Make it difficult to edit documents.
13. The choices for selecting the page orientation are:
- a. Text and graphic
  - b. Tabular and columnar
  - c. Portrait and landscape**
  - d. Left or right
14. The feature that temporarily holds text or graphics that were cut or copied is the:
- a. Clipboard**
  - b. Text box
  - c. Tool box
  - d. Clip art
15. The option that allows the user to adjust the vertical spacing between lines is:
- a. Kerning
  - b. Tracking
  - c. Hyphenation
  - d. Leading**
16. A text treatment used to organize text so a reader can find information easily:
- a. Headers**
  - b. Contrast
  - c. Body type
  - d. Borders

17. The arrangement of text flush left, flush right, centered or justified:
- a. Column
  - b. Alignment**
  - c. Border
  - d. Capitalization
18. The small sensors on a common flatbed scanner that compare and store data about the electrical charge before and after an image is scanned are called:
- a. Rotation cylinders
  - b. Light adaptors
  - c. CCDs (Charged-couple devices)**
  - d. Pixel sensors
19. A picture element that is composed of hundreds of thousands of spots of light that compose a computer monitor:
- a. Halftone
  - b. Virtual memory
  - c. Resolution
  - d. Pixel**
20. An image that is composed of black and white dots and was produced from continuous tone art:
- a. Pixel
  - b. Halftone**
  - c. Continuous tone
  - d. Photo tone
21. OCR software is used to:
- a. Scan line art.
  - b. Convert text into graphics.
  - c. Reduce pixelation.
  - d. Scan text as letters, word and sentences and not as a graphic image.**
22. File format used primarily for photographic images and which uses Lossy compression format to reduce the file size:
- a. TIFF
  - b. JPEG**
  - c. EPS
  - d. BMP
23. Most digital cameras have a (an) \_\_\_\_\_ which displays the picture right away.
- a. Micro processor
  - b. LCD screen**
  - c. Flash memory
  - d. Compression device
24. On some keyboards, numbers can be typed by pressing the number keys or by using a :
- a. Number key pad.**
  - b. Insert key
  - c. Space bar
  - d. Caps Lock key
25. To type a capital letter using a keyboard, a user must hold down the \_\_\_\_\_ key and then type the letter key.
- a. Home
  - b. Tab
  - c. Return
  - d. Shift**

## Press Operations – Sample Exam Questions

1. The terms Stitch, Saddleback, Side or Top Corner on a job ticket refers to:
  - a. Prepress
  - b. Typesetting
  - c. Bindery**
  - d. A and B only
2. Bindery activities include:
  - a. Cutting, folding and die-cutting**
  - b. Labeling, packaging and shipping
  - c. Selecting paper color, grain direction and weight
  - d. Customer name, address and contact person
3. The Hazardous Material Identification System (HMIS) labels warn users about:
  - a. Expiration dates and proper storage of darkroom chemicals.
  - b. Potential health hazards, flammability, reactivity and personal protection equipment to wear.**
  - c. Proper first aid applications after chemical spills.
  - d. Local emergency contacts and reporting requirements.
4. A type of plate where the image area is chemically etched to a depth slightly below the non-printing area:
  - a. Presensitized
  - b. Electrostatic
  - c. Deep-etch**
  - d. Direct-image
5. A presensitized plate that has a factory applied synthetic lacquer coating that is removed during development is called:
  - a. Additive-working
  - b. Subtractive-working**
  - c. Negative-working
  - d. Positive-working
6. The solution used to preserve a plate and protect the plate surface form oxidation is:
  - a. Desensitizing solution
  - b. Lacquer
  - c. Deletion fluid
  - d. Gum Arabic**

7. Opaque solution is used to:
- Make register marks.
  - Remove the emulsion from the film.
  - Coat the plate with light-sensitive material.
  - Cover pinholes and scratches and prevent light from passing through the negative.**
8. Flammable liquids should always be stored:
- Outside the building.
  - Next to the press.
  - In designated and protected areas.**
  - In storage bin beneath the press.
9. Operator control features of the inking system of a press include:
- Vertical image position and blanket to impression cylinder pressure.
  - Sucker tube and gripper pressure.
  - Ink fountain and ink doctor roller on/off control.**
  - Stripper separator speed and vacuum control.
10. The main parts of the cylinder system are the:
- Plate cylinder, blanket cylinder, impression cylinder**
  - Plate, fountain roller, grippers
  - Impression cylinder, dampening system, inking system
  - Impression cylinder, feed roller, register board
11. The parts of the press that separate the paper from the impression cylinder are called:
- Grippers
  - Suckers
  - Strippers**
  - Lifters
12. In the delivery system of a press, if the ejector rollers must pass through an image area for proper sheet delivery, they must be \_\_\_\_\_ and \_\_\_\_\_ to prevent streaking.
- Wiped, kept as dry as possible
  - Coated, dampened continuously**
  - Inked, dampened with water on alternate runs
  - Held down, pressed

13. The size of each type or grade of paper that has become standard over time is the:
- a. Usable size
  - b. Press size
  - c. Basic size**
  - d. Printable size
14. The dimensions for standard index type paper are:
- a. 25 in. by 30 in.
  - b. 22 in. by 22 in.
  - c. 17 in. by 22 in.
  - d. 25 ½ in. by 30 ½ in.**
15. When ink does not fade from exposure to strong light or over time, it is said to have:
- a. Permanence**
  - b. Depth
  - c. Resistance
  - d. Viscosity
16. Ink used on high speed presses with heating devices is:
- a. Heat-set ink**
  - b. Metallic ink
  - c. Quick-set ink
  - d. Process ink
17. The type of inks that have the least penetration into the paper surface is:
- a. Metallic inks
  - b. Gloss inks**
  - c. Soy inks
  - d. Process inks
18. Antioxidants are used in ink to:
- a. Slow surface drying.**
  - b. Brighten pigments.
  - c. Preventing ink from sticking to white areas.
  - d. Make ink heat resistant.
19. “ Snowflakey” printing is a result of:
- a. Too much humidity.
  - b. Insufficient heat.
  - c. Insufficient pigment.
  - d. Too much water.**
20. One problem that could occur by increasing the amount of acid in an ink is:
- a. The color of the ink breaks down.
  - b. The life of the plate is reduced.
  - c. The ink emulsifies.
  - d. All of the above.**

21. To help make the proper adjustments needed to the register system, you should:
- a. Adjust all guides and stops as far apart as possible.
  - b. Place a sheet of paper from the stock to be run on the register board against the jogger side guide and front paper stops.**
  - c. Lift paper control wheels or bails so they do not touch the sheets for the first several sheets run through the press.
  - d. Turn the hand wheel so that the jogger guides are at least 1 inch inside the edge of the sheet.
22. The blanket cylinder surface should be cleaned with:
- a. Dampening solution
  - b. A dry cloth
  - c. Blanket wash**
  - d. Distilled Water
23. To correct the vertical position of an image, one can adjust:
- a. The register board.
  - b. The delivery system.
  - c. The impression cylinder.
  - d. The plate or blanket cylinder.**
24. In 'work and tumble' printing, the sheet is printed on one side and then:
- a. Folded into four parts before printing the other sides.
  - b. Flipped head to toe to print on the other side.**
  - c. Cut into two pieces before printing the other sides.
  - d. Turned right side over left side to print the back image.
25. A possible cause of a weak or open area in the printed image is:
- a. Not enough ink being run.
  - b. Paper guides set too tight.
  - c. Plate to blanket cylinder too tight.**
  - d. Too much acid in the fountain solution.