

TELANGANA UNIVERSITY
S.S.R. DEGREE COLLEGE, NIZAMABAD (C.C:5029)
I SEMESTER INTERNAL ASSESSMENT I EXAMINATIONS
FUNDAMENTALS OF INFORMATION TECHNOLOGY QUESTION BANK

I. Choose the correct Answers.

1. Data compression means to the file size. [b]
(a) Increase (b) Decrease (c) Can't say (d) None of the above

2. Which is a type of data compression? [b]
(a) Resolution (b) Zipping (c) Inputting (d) Caching

3. How many types of video compressions exist? [a]
(a) 2 (b) 3 (c) 4 (d) 6

4. Which image files are lossy format? [c]
(a) GIF (b) MPEG (c) JPEG (d) PNG

5. Which files creates a perfect reproduction of the original images? [c]
(a) Shockwave (b) Nx View (c) GIF (d) Caching

6. A smaller version of an image is called a? [d]
(a) Clipart (b) Bitmap (c) PNG (d) Thumbnail

7. A typical CD-R disc can hold approximately? [b]
(a) 200 MB (b) 700 MB (c) 500 MB (d) Thumbnail

8. Interactive training that is delivered via CD ROM is known as? [c]
(a) ABT (b) BCT (c) CBT (d) DBT

9. If frames are displayed on screen fast enough we get an impression of? [b]
(a) Signals (b) Motions (c) Packets (d) Bits

10. Moving picture experts group (MPEG) is used to compress? [d]
(a) Frames (b) Images (c) Audio (d) Video

11. Joint photographic experts group (JPEG) is used to compress? [c]
(a) Music (b) Pictures (c) Images (d) Frames

12. In audio and video compression, each frames is divided into small grids called? [c]
(a) Frames (b) Packets (c) Pixels (d) Mega pixels

13. In video compression an independent frame that is not related to any other frame is? [c]
(a) B-frame (b) C-frame (c) I-frame (d) P-frame

14. MP3 productions three data rates from 96 Kbps to? [b]
(a) 128 Kbps (b) 164 Kbps (c) 256 Kbps (d) 320 Kbp

15. MMS stands for ? [b]
(a) Multimedia System (b) Multimedia Messaging Services
(c) Multimedia Messaging System (d) Multimedia Services

16. GIF stands for ? [b]
(a) Graphic Information File (b) Graphic Interchange Format
(c) Graphic Information Format (d) Graphic Interchange File
17. MPEG stands for ? [b]
(a) Motion Picture Express Group (b) Motion Picture Expert Group
(c) Motion Picture Export Group (d) None of these
18. JPEG stands for? [a]
(a) Joint Photographic Experts Group (b) Joint Photo Experts Gross
(c) Joint Processor Experts Group (d) Joint Photographic Expression Group
19. MP3 is in which of the following MPEG standards? [b]
(a) MPEG1 (b) MPEG2 (c) MPEG3 (d) MPEG21
20. Which image files are a lossy format? [c]
(a) GIFB (b) MPEGC (c) JPEG (d) PNG
21. In Real Time Interactive Audio Video conferencing requires two way communications between. [a]
(a) Receivers and Senders (b) Packets to Frames
(c) Pixels to Packets (d) Frames to Pixels
22. Jitter is introduced in real-time data by delay between [d]
(a) Frames (b) Layers (c) Pixels (d) Packets
23. To prevent jitter, we can time-stamp packets and separate arrival time from the [b]
(a) Frame Time (b) Playback Time (c) Pixels Time (d) Packet Time
24. A simple session using SIP, consists of establishing, communicating, and _____ [d]
(a) Transmission (b) System (c) Streaming (d) Terminating
25. Images included in many software titles are called _____ [a]
(a) Clipart (b) Popups (c) .jpg files (d) .tiff files
26. A good example of hypermedia is _____ [a]
(a) The internet (b) Levell video disc (c) Audiotape (d) Videotape
27. Establishing a session in Session Initiation Protocol (SIP), requires a three-way [c]
(a) Protocols (b) System (c) Handshake (d) Ports
28. _____ are typical examples of static images. [a]
(a) Photographs (b) File (c) Jokes (d) Messages
29. Virtual Reality is useful in training pilots in flight [c]
(a) Imitation (b) Model (c) Simulators (d) None
30. A technique to blend two or more images to form a new image is _____ [b]
(a) Modeling (b) Morphing (c) Animating (d) Warping

II. Fill in the blanks.

1. Lossy compressions provide some loss of quality.
2. JPEG is a file format for graphics image
3. Audio MP3 is an extension of a file.
4. Cipher is a combination of an encryption and a decryption algorithm.
5. MPEG-2 was designed for high-quality DVD with a data rate of 3 to 6 Mbps
6. In Audio and Video Compression, voice is sampled at 8000 samples per second with 8 bits per sample
7. A compressed audio/video file can be downloaded as text file
8. MPEG-1 was designed for a CD
9. Block size in block preparation step of JPEG compression is 8 X 8
10. A compressed audio/video file can be downloaded as text file
11. The first phase of JPEG is DCT transformation
12. Random access is not allowed in live streaming
13. Lossy and lossless are classifications of compression algorithms
14. The technology used in optical disks is laser Beam
15. A optical disk consists of a circular disk, which is coated with a thin metal that is highly reflective.
16. Moving Picture Experts Group (MPEG) is used to compress video
17. Multiple users can simultaneously receive the same data streams without duplication of data across the internet is multicast
18. Planning is the first stage of building a multimedia project.
19. Flash is a time-based multimedia authoring system from Macromedia often used for building web pages.
20. Gantt chart is a planning chart that depicts tasks along a time line.
21. Acrobat Reader is the application for viewing Acrobat PDF files.
22. Multimedia programs are interactive

III. Short Answer Questions:

1. What is compression?

A: Compression refers to reducing the original file size.

2. Why is it necessary to compress files?

A: Video and audio files consume more disk space compared to document files. While sending the files as attachments in an email, the email may not send the file, as the size is more than it takes. Compressed files with less disk space can be sent as attachments in an email. Compressed files reduce time to attach, upload and download files...

3. What are major steps for JPEG compression?

A: The major steps that are involved in JPEG compression are: Discrete Cosine Transformation, Quantization, Zigzag Scan, DPCM on DC component, RLE on AC Components and Entropy Coding.

4. What do you mean by lossless source coding?

A: Lossless source coding is one of the data compression standards. It allows the decompression assures the exact copy of the original data. Images, audio and video files use lossless source compression standard. It is suitable for compressing text files and it produces fixed length symbols.

5. Explain about MPEG-2.

A: MPEG-2 is one of the international standards for compressing video signals. Videos can be compressed prior to transmission or storage. The approximate compression ratio is 50:1 of the digital size. MPEG-2 standard is widely implemented in digital TV transmission with 200 million decoders. MPEG-2 standard exploits the redundancies in the original signal.

6. What is Hypermedia?

A: The linking of media for easy access is called Hypermedia. The media may be of any type such as text, audio, video etc. A hypermedia document contains a text and any other sub objects such as images, sound, full-motion video etc.

7. What is a BLOB?

A: BLOB means Binary Large Object. Relational Database has adopted a data type commonly known as BLOB. It is used for objects such as images or other binary data types.

8. Explain user workstation?

A: User workstation can serve as the input node for voice or video input. It can also serve as the output node for text, graphics, image, audio/voice or video.

9. What is Multimedia Conferencing?

A: Multimedia conferencing is to interact with people across the world. It uses certain tools like cameras, computers and internet. Adobe Connect is one of the tool to broadcast the events interactively to the web. The interactive conferencing includes certain gadgets like audio speakers, LCD projectors..

10. What is Image Processing?

A: Image Processing refers to processing a digital image using a digital computer. An image processing system will alter the contents of the image.