



**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH**  
Institution Deemed to be University under Distinct Category, A Centrally Funded Technical Institute  
Ministry of Education, Government of India, Taramani, Chennai - 600 113.

**राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान**  
विशिष्ट श्रेणी के तहत मानित विश्वविद्यालय संस्थान, एक केंद्रीय वित्त पोषित तकनीकी संस्थान  
शिक्षा मंत्रालय, भारत सरकार, तारामणि, चेन्नई - ६०० ११३.

Date of Examination:	27.04.2026	Time: 90 Minutes
Name of the Post:	TECHNICAL OFFICER (PRODUCTION ASSISTANT)	
Name of the Candidate:		
Roll No:		

\_\_\_\_\_  
Candidate's Signature

\_\_\_\_\_  
Invigilator's Signature

**Instructions to the Candidate:**

1. There are 100 MCQ in this question paper.
2. Out of 4 options given, choose the most appropriate option for each question.
3. Use of Calculators, Cell Phones and Other Electronic Devices are not permitted inside the examination hall.
4. Candidate should fill the details on both question paper booklet and OMR sheet carefully without any corrections.
5. Candidate should carefully read the instructions given on the question paper booklet and OMR sheet.
6. Candidate should mark correct answer only on OMR sheet.
7. Question paper consists of **100 questions**. Questions in the form of MCQ type.
8. Each question carrying **one mark**. **No negative mark for wrong answer.**
9. Clarifications on Questions are not permitted.
10. Rough works can be done in the rough sheet provided.
11. No Candidate is allowed to leave the examination hall till the examination is completed.
12. Candidate **should return question paper booklet, OMR sheet and the rough sheets after completion of examination to the invigilator.**

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHENNAI

TECHNICAL OFFICER (PRODUCTION ASSISTANT)

1. If audio sync errors are discovered, which process should have been more rigorously applied during production?
  - a. Scheduling
  - b. Shot listing
  - c. Timecoding
  - d. Lighting design
2. Who holds ultimate responsibility for translating the script into visual language on set?
  - a. Director
  - b. Producer
  - c. Editor
  - d. Production Assistant
3. In a tightly scheduled shoot, which document is most critical for maintaining on-set efficiency?
  - a. Script draft
  - b. Storyboard
  - c. Budget sheet
  - d. Shot list
4. Which stage involves maximum decision-making about logistics, budget, and resource allocation?
  - a. Production
  - b. Pre-production
  - c. Distribution
  - d. Post-production
5. Who ensures that the project stays aligned with the original educational goals?
  - a. Producer
  - b. Creative Editor
  - c. Assistant Director
  - d. Associate Producer

6. What is the key difference between a zoom and a dolly-in?
  - a. Zoom changes perspective, dolly does not
  - b. Both produce identical visual effects
  - c. Dolly changes perspective, zoom does not
  - d. Zoom requires tracks, dolly does not
7. A 3-axis gimbal stabilizes the camera across \_\_\_\_\_.
  - a. Zoom, focus, and exposure
  - b. Pan, tilt, and roll movements
  - c. Audio, video, and lighting
  - d. Frame rate, resolution, and bitrate
8. If ambient noise disrupts dialogue clarity during a shoot, who must take immediate corrective action on set?
  - a. Broadcast Sound Engineer
  - b. Mastering Engineer
  - c. Recording Engineer
  - d. Live Sound Engineer
9. Which tool is primarily used to split clips in Final Cut Pro?
  - a. Blade Tool
  - b. Range Selection Tool
  - c. Trim Tool
  - d. Position Tool
10. What could be a direct consequence of an inaccurate call sheet?
  - a. Improved editing quality
  - b. Smooth production workflow
  - c. Confusion, delays, resource mismanagement
  - d. Better sound recording

11. On a high-end production, who is primarily responsible for ensuring that the intended visual "look" is technically preserved from camera capture?
- Editor
  - Sound Engineer
  - Production Assistant
  - Digital Imaging Technician
12. In a brainstorming session, mind mapping primarily supports which cognitive process?
- Memorization through repetition
  - Divergent thinking and idea expansion
  - Data compression
  - Logical elimination
13. In Meissner training, repetition exercises are primarily designed to \_\_\_\_\_.
- Shift focus from words to emotional truth
  - Improve diction and pronunciation
  - Reinforce script memorization
  - Develop improvisational comedy skills
14. In an ensemble cast, how is screen time generally allocated?
- Unequally, favoring one lead actor
  - Randomly across scenes
  - Relatively evenly among principal performers
  - Only to supporting roles
15. Who are typically selected for test screenings?
- Critics
  - Cross-section
  - Crew members
  - Producers

16. What was ADR historically known as?
- a. Syncing
  - b. Mixing
  - c. Layering
  - d. Looping
17. Who is primarily responsible for script breakdown?
- a. Assistant Director
  - b. Editor
  - c. Director
  - d. Cameraperson
18. A film production company under contract is called an \_\_\_\_\_.
- a. Subsidiary
  - b. Affiliate
  - c. Division
  - d. Franchise
19. What physical requirement is essential for boom operation?
- a. Speed
  - b. Strength
  - c. Stamina
  - d. Flexibility
20. What is the key output of production-stage design?
- a. Scripts
  - b. Shots
  - c. Scenes
  - d. Assets

21. Which factor primarily determines depth of field when sensor size and framing are constant?
- ISO
  - Aperture
  - White balance
  - Frame rate
22. Which camera type is most optimized for live field broadcasting with mobility and real-time transmission?
- ENG camera
  - DSLR
  - Mirrorless
  - Studio camera
23. A shallow depth of field is achieved by \_\_\_\_\_.
- Small aperture (high f-number)
  - High ISO
  - Wide aperture (low f-number)
  - High shutter speed
24. In multi-camera production, line-of-action (180° rule) violation leads to \_\_\_\_\_.
- Exposure inconsistency
  - Audio delay
  - Frame drop
  - Viewer spatial disorientation
25. A 4K UHD resolution corresponds to \_\_\_\_\_.
- 3840 × 2160
  - 1280 × 720
  - 1920 × 1080
  - 4096 × 3112

26. Which frame rate is typically used to achieve a cinematic motion look?
- a. 15 fps
  - b. 24 fps
  - c. 30 fps
  - d. 60 fps
27. Which camera movement creates a psychological sense of subject isolation?
- a. Pan
  - b. Tilt
  - c. Dolly-out
  - d. Zoom-in
28. A rack focus technique is used to \_\_\_\_\_.
- a. Change exposure dynamically
  - b. Adjust white balance
  - c. Shift focus between subjects
  - d. Modify frame rate
29. Which camera angle is most effective for conveying power and dominance?
- a. Low angle
  - b. Eye-level
  - c. High angle
  - d. Dutch angle
30. In video signal formats, increasing frame rate from 24 fps to 60 fps results in \_\_\_\_\_.
- a. Lower motion clarity
  - b. Reduced resolution
  - c. Increased depth of field
  - d. Higher motion smoothness

31. In instructional video framing, the rule of thirds is primarily used to \_\_\_\_\_.
- Improve audio clarity
  - Increase resolution
  - Balance visual composition
  - Adjust exposure
32. Which format transition involves interlaced to progressive scanning?
- SD to HD
  - 1080i to 1080p
  - 4K to HD
  - 16:9 to 4:3
33. In multi-camera coordination, cutaways are mainly used to \_\_\_\_\_.
- Hide continuity errors
  - Improve lighting
  - Enhance color grading
  - Adjust frame rate
34. Which lens focal length is most suitable for minimizing facial distortion in interviews?
- 18mm-45mm
  - 24mm-48mm
  - 200mm-300mm
  - 50mm-85mm
35. In ENG workflows, the primary advantage of using XLR inputs is \_\_\_\_\_.
- Wireless transmission
  - Higher video resolution
  - Balanced audio with noise reduction
  - Faster frame rate

36. Which composition technique intentionally breaks horizontal alignment to create tension?
- a. Dutch angle
  - b. Rule of thirds
  - c. Leading lines
  - d. Symmetry
37. A tracking shot differs from a pan because it \_\_\_\_\_.
- a. Moves horizontally from a fixed point
  - b. Involves camera movement through space
  - c. Changes focal length
  - d. Moves vertically
38. Which condition causes color cast issues in video?
- a. Incorrect ISO
  - b. High shutter speed
  - c. Low frame rate
  - d. Incorrect white balance
39. Which camera movement best simulates a subject's point of view?
- a. Static shot
  - b. Tilt
  - c. Handheld movement
  - d. Zoom-out
40. A vertical video (9:16) is played on a horizontal (16:9) display. What visual effect is expected?
- a. Pillar boxing
  - b. Letterboxing
  - c. Cropping
  - d. Stretching equally

41. Placing a lavalier microphone too close to clothing can result in \_\_\_\_\_.
- a. Phase cancellation
  - b. RF interference
  - c. Echo
  - d. Rustling noise
42. What is the main advantage of using a shotgun microphone in film production?
- a. Captures surround sound
  - b. Isolates sound from a specific direction
  - c. Boosts bass frequencies
  - d. Eliminates background noise completely
43. Which microphone type operates on the principle of electromagnetic induction?
- a. Condenser microphone
  - b. Lavalier microphone
  - c. Dynamic microphone
  - d. Ribbon microphone
44. What does 0 dBFS represent in digital audio recording?
- a. Maximum possible level before clipping
  - b. Average recording level
  - c. Absolute silence prior to recording
  - d. Safe headroom
45. Which term refers to listening to the input signal before it is recorded?
- a. Playback monitoring
  - b. Post-production monitoring
  - c. Mastering
  - d. Input monitoring

46. Which unit is most commonly used to measure sync accuracy in video production?
- a. Decibels
  - b. Hertz
  - c. Frames
  - d. Pixels
47. Which lighting technique creates strong contrast and dramatic shadows?
- a. High-key lighting
  - b. Low-key lighting
  - c. Soft lighting
  - d. Flat lighting
48. How can you maintain subject separation without increasing contrast?
- a. Add or adjust back light
  - b. Increase key light
  - c. Increase fill light
  - d. Reduce all lights
49. Which unit is used to measure light intensity?
- a. Hertz
  - b. Decibel
  - c. Kelvin
  - d. Lux
50. A 4K frame (3840×2160) contains a green screen area of 2,073,600 pixels. What percentage of the frame is green?
- a. 50%
  - b. 20%
  - c. 25%
  - d. 75%

51. A reflector placed too close to the subject may cause \_\_\_\_\_.
- a. Harsh highlights on face
  - b. Color distortion only
  - c. No effect
  - d. Reduced brightness
52. A constant humming noise is present in audio. What is the probable issue?
- a. Polar pattern mismatch
  - b. Ground loop interference
  - c. Battery voltage drop
  - d. High-frequency boost
53. Which microphone is ideal for conference recording?
- a. Ribbon mic
  - b. Shotgun mic
  - c. Lavalier mic
  - d. Boundary mic
54. Gradual sync loss is called \_\_\_\_\_.
- a. Phase shift
  - b. Echo delay
  - c. Signal drift
  - d. Gain error
55. Safe dialogue level typically \_\_\_\_\_.
- a. -12 dBFS
  - b. -3 dBFS
  - c. -1 dBFS
  - d. 0 dBFS

56. Which of the following companies produces the ATEM Mini video switcher?
- a. Avid Technology
  - b. Grass Valley
  - c. NewTek
  - d. Blackmagic Design
57. Which system uses audio tone signals to indicate timing discrepancies in composite video synchronization?
- a. Genlock
  - b. Natlock
  - c. Icelock
  - d. Framestore
58. Which early teleprompting method operated using a mechanically driven scrolling medium?
- a. Glass display
  - b. Stone tablet
  - c. Paper roll
  - d. Fabric scroll
59. Which configuration eliminates the need for external splitters while enabling independent screen extension across multiple monitors?
- a. Display extend
  - b. Mirror mode
  - c. Signal split
  - d. Clone output
60. Which mode reflects the actual output level after fader adjustment?
- a. PFL
  - b. Pre-gain
  - c. Solo-in-place
  - d. AFL

61. Which of the following audio mixers does not feature motorized faders?
- a. Yamaha CL5
  - b. Behringer X32
  - c. Allen & Heath ZED-14
  - d. Avid S6
62. Which of the following functions is not typically associated with a Camera Control Unit (CCU) in a broadcast setup?
- a. Lens focusing
  - b. Remote iris
  - c. Color matching
  - d. Signal routing
63. A mismatched connector adapter may alter which electrical characteristic?
- a. Sample rate
  - b. Impedance
  - c. Resolution
  - d. Frame rate
64. Which of the following is not an alternate name for a cable tie?
- a. Hose tie
  - b. Panuit
  - c. Zip tie
  - d. Cable lug
65. Who is credited as the co-inventor of the N-type RF connector used in coaxial cable systems?
- a. David Patterson
  - b. Guglielmo Marconi
  - c. Paul Neill
  - d. Nakashima Akira

66. VGA was first introduced with which computer line?
- a. Apple Macintosh
  - b. IBM PS/2
  - c. Commodore 64
  - d. Atari ST
67. Which factor is most critical for efficient NAS performance in remote access?
- a. Upload speed
  - b. CPU speed
  - c. GPU power
  - d. Cache size
68. What is the primary purpose of a dummy load in RF systems?
- a. Signal amplify
  - b. Noise filter
  - c. Frequency shift
  - d. Power absorb
69. Labeling equipment systematically contributes to \_\_\_\_\_.
- a. Audio clarity
  - b. Signal strength
  - c. Inventory control
  - d. Data transfer
70. Which software integrates the Lumetri Color panel for grading workflows?
- a. DaVinci Resolve
  - b. Adobe Premiere Pro
  - c. HitFilm Express
  - d. Final Cut Pro

71. The accuracy of an EDL largely depends on:
- a. GPU processing power
  - b. File compression ratio
  - c. Audio sampling rate
  - d. Precise timecode synchronization
72. Which method allows editing to begin even before file transfer is fully completed?
- a. Shared Storage
  - b. Direct Access
  - c. Importing
  - d. Offline rendering
73. Which factor most directly accelerated the rise of alternative NLE software among non-professional users?
- a. GPU rendering
  - b. Film resolution
  - c. Subscription models
  - d. Broadcast standards
74. Which module in Resolve is dedicated to visual effects?
- a. Color
  - b. Fusion
  - c. Fairlight
  - d. Deliver
75. In Final Cut Pro, which is editing function trims clips while affecting adjacent clips?
- a. Slip
  - b. Slide
  - c. Razor
  - d. Ripple

76. Which platform does not officially support OpenShot Video Editor?
- a. Android
  - b. ChromeOS
  - c. Linux
  - d. macOS
77. Which of the following transitions is least directly associated with conveying passage of time in film editing?
- a. Dissolve
  - b. Fade to black
  - c. Match cut
  - d. Wipe
78. Trimming is typically performed using which markers?
- a. Key frames
  - b. In-out points
  - c. Anchor nodes
  - d. Sync markers
79. The opening text in the movie series Star Wars is best described as?
- a. Static frame
  - b. Horizontal crawl
  - c. Fade overlay
  - d. Vertical roll
80. Which feature marked Canva's entry into AI copywriting?
- a. Magic Write
  - b. Canva Code
  - c. Canva Sheets
  - d. Smart Styles

81. Which method is primarily used in Blender's fluid simulation?
- a. Ray tracing
  - b. Lattice Boltzmann
  - c. Fourier transform
  - d. Bézier curves
82. If an animation project uses 3 render engines and each reduces time by 25%, total reduction percentage (combined sequential)?
- a. 50%
  - b. 75%
  - c. 57.8%
  - d. 68.75%
83. To integrate external subtitle files (e.g., SRT) into Blender, what is primarily required?
- a. Add-on support
  - b. Rendering module
  - c. Keyframe system
  - d. Modifier pipeline
84. Which feature ensures captions do not obstruct main visuals in broadcast design?
- a. Depth mapping
  - b. Side alignment
  - c. UV projection
  - d. Lower thirds
85. In subtitle workflows, "burn-in" refers to?
- a. Audio sync
  - b. Permanent embed
  - c. Dynamic overlay
  - d. Frame blending

86. Which OBS function allows switching between camera angles live?
- Encoding panel
  - Audio mixer
  - Scene switching
  - Output control
87. In live production, delayed switching may indicate what issue?
- Latency spike
  - Shader error
  - Mesh conflict
  - Texture loss
88. In multi-camera setups, what ensures consistent color across feeds?
- Frame blending
  - Bitrate sync
  - Scene grouping
  - LUT matching
89. Which feature enables multilingual subtitle generation?
- GPU scaling
  - Machine translation
  - Frame blending
  - Scene nesting
90. What is the key limitation of AI in detecting sarcasm in subtitles?
- Syntax failure
  - Audio distortion
  - Semantic nuance
  - Frame skipping

91. Which modality combination best defines interaction in smart VR systems?
- a. Text only
  - b. Audio only
  - c. Static visuals
  - d. Multimodal input
92. Which outcome is most enhanced by AI-VR integration in media training?
- a. Creative skills
  - b. File compression
  - c. Bitrate control
  - d. Rendering speed
93. Which trade-off is most relevant in AI cloud storage systems?
- a. Color vs contrast
  - b. Speed vs cost
  - c. Frame vs audio
  - d. Size vs format
94. In Wondershare Filmora, the "Smart Short Clip" feature best supports which content format?
- a. Long documentary
  - b. Video podcast
  - c. Vertical short
  - d. Raw footage
95. In digital workflows, what is the primary role of a DAM system in video editing?
- a. Frame rendering
  - b. Audio mixing
  - c. Color grading
  - d. Asset centralization

96. Which system is specifically tailored for managing video-heavy assets?
- a. MAM system
  - b. CMS platform
  - c. ERP software
  - d. CRM system
97. Which environment benefits from educational video integration?
- a. Offline storage
  - b. Classroom teaching
  - c. File servers
  - d. Data centers
98. In e-learning videos, pacing mainly affects what?
- a. Resolution
  - b. Bitrate
  - c. Comprehension
  - d. Storage
99. What is the role of feedback in instructional media design?
- a. Cognitive calibration
  - b. Sensory modulation
  - c. Content redundancy
  - d. Learning reinforcement
100. What is the importance of visuals in SWAYAM, NITTTR educational videos?
- a. Concept illustration
  - b. Perceptual redundancy
  - c. Sensory channel balancing
  - d. Cognitive load minimization

