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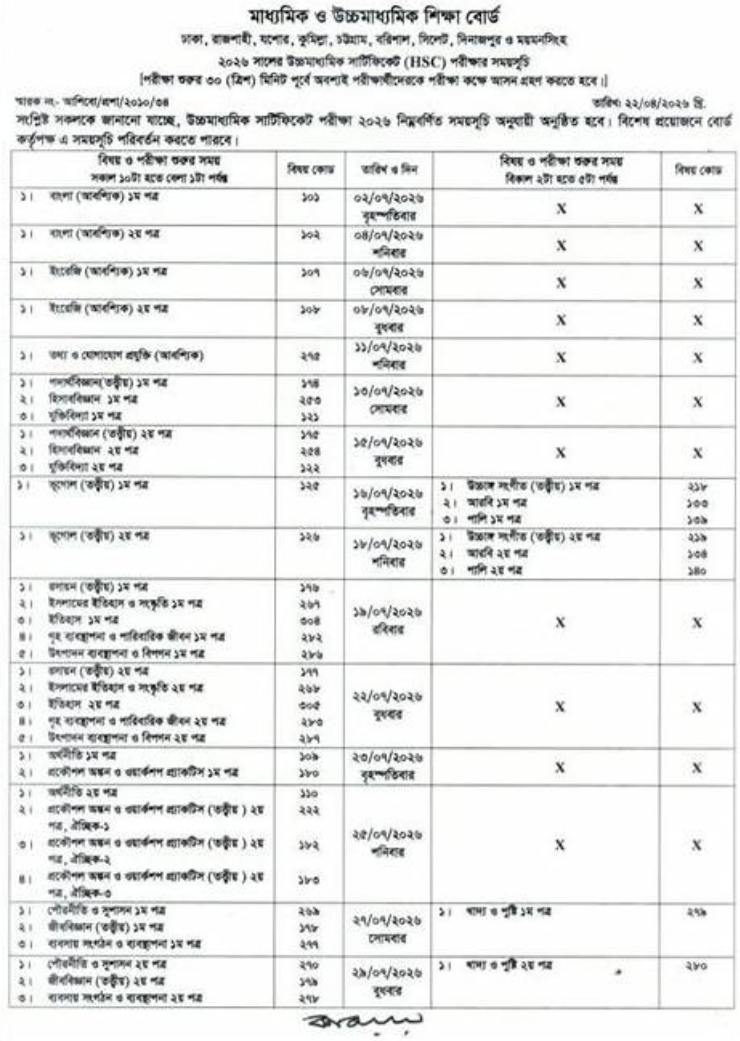

মাধ্যমিক ও উচ্চমাধ্যমিক শিক্ষা বোর্ড

ঢাকা, রাজশাহী, যশোর, কুমিল্লা, চট্টগ্রাম, বরিশাল, সিলেট, দিনাজপুর ও ময়মনসিংহ

২০২৬ সালের উচ্চমাধ্যমিক সার্টিফিকেট (HSC) পরীক্ষার সময়সূচি

[পরীক্ষা শুরুর ৩০ (ত্রিশ) মিনিট পূর্বে অবশ্যই পরীক্ষার্থীদেরকে পরীক্ষা কক্ষে আসন গ্রহণ করতে হবে।]

স্মারক নং- অশিবো/প্রশা/২০১০/৩৪ তারিখ: ২২/০৪/২০২৬ খ্রি.

সংশ্লিষ্ট সকলকে জানানো যাচ্ছে, উচ্চমাধ্যমিক সার্টিফিকেট পরীক্ষা ২০২৬ নিম্নবর্ণিত সময়সূচি অনুযায়ী অনুষ্ঠিত হবে। বিশেষ প্রয়োজনে বোর্ড কর্তৃপক্ষ এ সময়সূচি পরিবর্তন করতে পারবে।

বিষয় ও পরীক্ষা শুরুর সময় সকাল ১০টা হতে বেলা ১টা পর্যন্ত	বিষয় কোড	তারিখ ও দিন	বিষয় ও পরীক্ষা শুরুর সময় বিকাল ২টা হতে ৫টা পর্যন্ত	বিষয় কোড
১। বাংলা (আবশ্যিক) ১ম পত্র	১০১	০২/০৭/২০২৬ বৃহস্পতিবার	X	X
১। বাংলা (আবশ্যিক) ২য় পত্র	১০২	০৪/০৭/২০২৬ শনিবার	X	X
১। ইংরেজি (আবশ্যিক) ১ম পত্র	১০৭	০৬/০৭/২০২৬ সোমবার	X	X
১। ইংরেজি (আবশ্যিক) ২য় পত্র	১০৮	০৮/০৭/২০২৬ বুধবার	X	X
১। তথ্য ও যোগাযোগ প্রযুক্তি (আবশ্যিক)	২৭৫	১১/০৭/২০২৬ শনিবার	X	X
১। পদার্থবিজ্ঞান (তত্ত্বীয়) ১ম পত্র ২। হিসাববিজ্ঞান ১ম পত্র ৩। যুক্তিবিদ্যা ১ম পত্র	১৭৪ ২৫৩ ১২১	১৩/০৭/২০২৬ সোমবার	X	X
১। পদার্থবিজ্ঞান (তত্ত্বীয়) ২য় পত্র ২। হিসাববিজ্ঞান ২য় পত্র ৩। যুক্তিবিদ্যা ২য় পত্র	১৭৫ ২৫৪ ১২২	১৫/০৭/২০২৬ বুধবার	X	X
১। ভূগোল (তত্ত্বীয়) ১ম পত্র	১২৫	১৯/০৭/২০২৬ বৃহস্পতিবার	১। উচ্চাঙ্গ সংগীত (তত্ত্বীয়) ১ম পত্র ২। আরবি ১ম পত্র ৩। পালি ১ম পত্র	২১৮ ১০৩ ১৩৯
১। ভূগোল (তত্ত্বীয়) ২য় পত্র	১২৬	১৮/০৭/২০২৬ শনিবার	১। উচ্চাঙ্গ সংগীত (তত্ত্বীয়) ২য় পত্র ২। আরবি ২য় পত্র ৩। পালি ২য় পত্র	২১৯ ১০৪ ১৪০
১। ভূগোল (তত্ত্বীয়) ১ম পত্র ২। ইসলামের ইতিহাস ও সংস্কৃতি ১ম পত্র ৩। ইতিহাস ১ম পত্র ৪। গৃহ ব্যবস্থাপনা ও পারিবারিক জীবন ১ম পত্র ৫। উৎপাদন ব্যবস্থাপনা ও বিপণন ১ম পত্র	১২৬ ২৬৭ ৩০৪ ২৮২ ২৮৬	১৯/০৭/২০২৬ রবিবার	X	X
১। ভূগোল (তত্ত্বীয়) ২য় পত্র ২। ইসলামের ইতিহাস ও সংস্কৃতি ২য় পত্র ৩। ইতিহাস ২য় পত্র ৪। গৃহ ব্যবস্থাপনা ও পারিবারিক জীবন ২য় পত্র ৫। উৎপাদন ব্যবস্থাপনা ও বিপণন ২য় পত্র	১২৭ ২৬৮ ৩০৫ ২৮৩ ২৮৭	২২/০৭/২০২৬ বুধবার	X	X
১। অর্থনীতি ১ম পত্র ২। প্রকৌশল অঙ্কন ও ওয়ার্কশপ প্র্যাকটিস ১ম পত্র	১০৯ ১৮০	২৩/০৭/২০২৬ বৃহস্পতিবার	X	X
১। অর্থনীতি ২য় পত্র ২। প্রকৌশল অঙ্কন ও ওয়ার্কশপ প্র্যাকটিস (তত্ত্বীয়) ২য় পত্র, ঐচ্ছিক-১ ৩। প্রকৌশল অঙ্কন ও ওয়ার্কশপ প্র্যাকটিস (তত্ত্বীয়) ২য় পত্র, ঐচ্ছিক-২ ৪। প্রকৌশল অঙ্কন ও ওয়ার্কশপ প্র্যাকটিস (তত্ত্বীয়) ২য় পত্র, ঐচ্ছিক-৩	১১০ ২২২ ১৮২ ১৮৩	২৫/০৭/২০২৬ শনিবার	X	X
১। পৌরনীতি ও সুশাসন ১ম পত্র ২। জীববিজ্ঞান (তত্ত্বীয়) ১ম পত্র ৩। ব্যবসায় সংগঠন ও ব্যবস্থাপনা ১ম পত্র	২৬৯ ১৭৮ ২৭৭	২৭/০৭/২০২৬ সোমবার	১। খাদ্য ও পুষ্টি ১ম পত্র	২৭৯
১। পৌরনীতি ও সুশাসন ২য় পত্র ২। জীববিজ্ঞান (তত্ত্বীয়) ২য় পত্র ৩। ব্যবসায় সংগঠন ও ব্যবস্থাপনা ২য় পত্র	২৭০ ১৭৯ ২৭৮	২৯/০৭/২০২৬ বুধবার	১। খাদ্য ও পুষ্টি ২য় পত্র	২৮০

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NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	• AI Infrastructure: This section of the exam measures the skills of IT professionals and focuses on the physical and architectural components needed for AI. It involves understanding the process of extracting insights from large datasets through data mining and visualization. Candidates must be able to compare models using statistical metrics and identify data trends. The infrastructure knowledge extends to data center platforms, energy-efficient computing, networking for AI, and the role of technologies like NVIDIA DPUs in transforming data centers.

Topic 2	• AI Operations: This section of the exam measures the skills of data center operators and encompasses the management of AI environments. It requires describing essentials for AI data center management, monitoring, and cluster orchestration. Key topics include articulating measures for monitoring GPUs, understanding job scheduling, and identifying considerations for virtualizing accelerated infrastructure. The operational knowledge also covers tools for orchestration and the principles of MLOps.
Topic 3	• Essential AI knowledge: Exam Weight: This section of the exam measures the skills of IT professionals and covers foundational AI concepts. It includes understanding the NVIDIA software stack, differentiating between AI, machine learning, and deep learning, and comparing training versus inference. Key topics also involve explaining the factors behind AI's rapid adoption, identifying major AI use cases across industries, and describing the purpose of various NVIDIA solutions. The section requires knowledge of the software components in the AI development lifecycle and an ability to contrast GPU and CPU architectures.

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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q44-Q49):

NEW QUESTION # 44
You are working on a project that involves analyzing a large dataset of satellite images to detect deforestation.
The dataset is too large to be processed on a single machine, so you need to distribute the workload across multiple GPU nodes in a high-performance computing cluster. The goal is to use image segmentation techniques to accurately identify deforested areas. Which approach would be most effective in processing this large dataset of satellite images for deforestation detection?

- A. Storing the images in a traditional relational database for easy access and querying
- B. Implementing a distributed GPU-accelerated Convolutional Neural Network (CNN) for image segmentation
- C. Manually reviewing the images and marking deforested areas for analysis
- D. Using a CPU-based image processing library to preprocess the images before segmentation

Answer: B

Explanation:
Processing a large dataset of satellite images for deforestation detection requires scalable, high-performance computing. A distributed GPU-accelerated CNN, optimized for image segmentation (e.g., U-Net or Mask R- CNN), leverages multiple NVIDIA GPUs across nodes to handle the computational load. NVIDIA technologies like NCCL (for inter-GPU communication) and DALI (for data loading) enable efficient distributed training and inference, ensuring accuracy and speed. This approach aligns with NVIDIA's DGX and HPC solutions for large-scale image analysis tasks.
A relational database (Option B) is suited for structured data, not raw image processing, and lacks GPU acceleration. CPU-based preprocessing (Option C) is too slow for large-scale segmentation compared to GPU acceleration. Manual review (Option D) is impractical for massive datasets. Distributed CNNs are NVIDIA's recommended method for such workloads.

NEW QUESTION # 45
A healthcare company is using NVIDIA AI infrastructure to develop a deep learning model that can analyze medical images and detect anomalies. The team has noticed that the model performs well during training but fails to generalize when tested on new, unseen data. Which of the following actions is most likely to improve the model's generalization?

- A. Increase the batch size during training

- B. Reduce the number of training epochs
- C. Use a more complex neural network architecture
- D. Apply data augmentation techniques

Answer: D

Explanation:
Applyingdata augmentation techniques(C) is the most likely action to improve the model's generalization on unseen medical imaging data. Let's dive into why:
* What is generalization?: Generalization is a model's ability to perform well on new, unseen data, avoiding overfitting to the training set. Overfitting occurs when a model memorizes training data (e.g., specific image patterns) rather than learning robust features (e.g., anomaly shapes).
* Role of data augmentation: Augmentation artificially expands the training dataset by applying transformations (e.g., rotations, flips, brightness changes) to medical images, simulating real-world variability (e.g., different lighting, angles in scans). This forces the model to learn invariant features, improving its performance on diverse test data. For example, rotating an X-ray image ensures the model recognizes anomalies regardless of orientation.
* Implementation: NVIDIA's DALI or cuAugment can GPU-accelerate augmentation,integrating seamlessly with training pipelines on NVIDIA infrastructure. Techniques like random crops or noise injection are particularly effective for medical imaging.
* Evidence: The symptom-high training accuracy, low test accuracy-indicates overfitting, a common issue in deep learning, especially with limited or uniform datasets like medical images. Augmentation is a standard remedy.
Why not the other options?
* A (Fewer epochs): Reduces training time, potentially underfitting, not addressing overfitting.
* B (Larger batch size): Improves training stability but doesn't inherently enhance generalization; it may even mask overfitting by smoothing gradients.
* D (More complex model): Increases capacity, worsening overfitting if data variety isn't addressed.
NVIDIA's healthcare AI resources endorse augmentation for robust models (C).

NEW QUESTION # 46
The foundation of the NVIDIA software stack is the DGX OS. Which of the following Linux distributions is DGX OS built upon?

- A. Red Hat
- B. Ubuntu
- C. CentOS

Answer: B

Explanation:
DGX OS, the operating system powering NVIDIA DGX systems, is built on Ubuntu Linux, specifically the Long-Term Support (LTS) version. It integrates Ubuntu's robust base with NVIDIA-specific enhancements, including GPU drivers, tools, and optimizations tailored for AI and high-performance computing workloads. Neither Red Hat nor CentOS serves as the foundation for DGX OS, making Ubuntu the correct choice.

NEW QUESTION # 47
A large healthcare provider wants to implement an AI-driven diagnostic system that can analyze medical images across multiple hospitals. The system needs to handle large volumes of data, comply with strict data privacy regulations, and provide fast, accurate results. The infrastructure should also support future scaling as more hospitals join the network. Which approach using NVIDIA technologies would best meet the requirements for this AI-driven diagnostic system?

- A. Deploy the AI model on NVIDIA DGX A100 systems in a centralized data center with NVIDIA Clara
- B. Implement the AI system on NVIDIA Quadro RTX GPUs across local servers in each hospital
- C. Use NVIDIA Jetson Nano devices at each hospital for image processing
- D. Deploy the system using generic CPU servers with TensorFlow for model training and inference

Answer: A

Explanation:
Deploying the AI model on NVIDIA DGX A100 systems in a centralized data center with NVIDIA Clara is the best approach for an AI-driven diagnostic system in healthcare. The DGX A100provides high- performance GPU computing for training and inference on large medical image datasets, while NVIDIA Clara offers a healthcare-specific AI platform with pre-trained models, privacy-

preserving tools (e.g., federated learning), and scalability features. A centralized data center ensures compliance with privacy regulations (e.g., HIPAA) via secure data handling and supports future scaling as more hospitals join.
Generic CPU servers with TensorFlow (A) lack the GPU acceleration needed for fast, large-scale image analysis. Quadro RTX GPUs (B) are for visualization, not enterprise-scale AI diagnostics. Jetson Nano (C) is for edge inference, not centralized, scalable diagnostic systems. NVIDIA's "Clara Documentation" and "AI Infrastructure for Enterprise" validate this approach for healthcare AI.

NEW QUESTION # 48
Which of the following statements best differentiates AI, machine learning, and deep learning?

- A. Machine learning is synonymous with AI, and deep learning is just an alternative term for neural networks.
- B. Deep learning and AI are the same, and machine learning is a subset of deep learning.
- C. AI is the broad concept of machines being able to perform tasks that require human intelligence, machine learning is a subset of AI, and deep learning is a subset of machine learning.
- D. Machine learning is a type of AI that specifically uses deep learning algorithms to make predictions.

Answer: C

Explanation:
NVIDIA's educational resources, such as those from the NVIDIA Deep Learning Institute (DLI), clarify the hierarchical relationship between AI, machine learning (ML), and deep learning (DL). AI is the overarching field encompassing any technique enabling machines to mimic human intelligence (e.g., reasoning, perception). Machine learning is a subset of AI that involves algorithms learning from data to make predictions or decisions without explicit programming. Deep learning, a further subset of ML, uses multi-layered neural networks to handle complex tasks like image recognition or natural language processing.
Option A is incorrect because ML includes more than just DL (e.g., decision trees, SVMs). Option B is wrong as DL and AI are distinct, and ML is not a subset of DL. Option D oversimplifies by equating ML with AI and mischaracterizes DL. NVIDIA's documentation aligns with Option C, providing a clear, industry- standard definition.

NEW QUESTION # 49
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