DCET IT SKILLS COMPLETE 20-MARK REVISION STUDY KIT

Grand Finale Comprehensive Revision Bible • Complete Syllabus Matrix • 50+ Technical Glossary • 30-Day RVCE Roadmap

MODULE 1: SYLLABUS & MARKS WEIGHTAGE BLUEPRINT

20 Marks Target

Unit	Topic Domain	Key Concepts Tested by KEA	Expected Weightage
Unit 1	**Web Architecture & Protocols**	Client-Server model, HTTP/HTTPS, Web browsers, Rendering engines, Port numbers	4–5 Marks
Unit 2	**Internet, URLs & DNS**	URL anatomy, Domain hierarchy, DNS resolution, IPv4 vs IPv6 addressing	4–5 Marks
Unit 3	**Webpage Engineering (HTML/CSS/JS)**	HTML5 semantic tags, CSS box model, Static vs Dynamic pages, DOM fundamentals	4–5 Marks
Unit 4	**Networking & Server Daemons**	Web servers (Nginx/Apache), App servers, Database servers, TCP vs UDP	3–4 Marks
Unit 5	**Cyber Security & Web Safety**	Symmetric vs Asymmetric cryptography, Firewalls, Cookies, Phishing, Malware types	3–4 Marks

MODULE 2: ESSENTIAL 20-MARK TERMINOLOGY GLOSSARY

High-Yield Vocabulary

- **Blink:** Open-source browser rendering engine powering Chrome and Edge.
- **V8:** High-performance JavaScript and WebAssembly engine built by Google.
- **Gecko:** Mozilla's independent browser engine powering Firefox.
- **DNS Root Server:** Top of DNS hierarchy; 13 logical root server clusters globally.
- **DHCP:** Dynamic Host Configuration Protocol; automatically assigns IP addresses (Ports 67/68).
- **ICMP:** Internet Control Message Protocol; used by ping and traceroute for diagnostics.
- **NAT:** Network Address Translation; maps private IPs to public routable IP.
- **Symmetric Encryption:** Uses single shared secret key (AES, DES).
- **Asymmetric Encryption:** Uses Public and Private key pair (RSA, ECC).
- **Cookie:** Plaintext client-side storage file managing session state.
- **Reverse Proxy:** Gateway sitting before web servers for load balancing (Nginx).
- **Subnet Mask:** 32-bit number separating Network ID from Host ID.

MODULE 3: MIDARSHA MA'AM'S 30-DAY RVCE TOLLGATE REVISION PLAN

Topper Timetable

Phase	Days	Daily Focus & Strategy	Target Milestone
Phase 1: Foundation	Days 1 – 10	Complete Unit 1 & Unit 2 concepts. Memorize all Port numbers, browser engines, and URL anatomy.	Solve 100 topic-wise MCQs; 100% accuracy on ports.
Phase 2: Core Engineering	Days 11 – 20	Master Unit 3 & Unit 4. Practice Static vs Dynamic questions and Server type classifications.	Score 18+ in unit-wise diagnostic practice tests.
Phase 3: Security & Traps	Days 21 – 25	Review Unit 5 Cyber Security + Exam Trap Buster Sheet. Master option elimination techniques.	Eliminate 2 wrong options in under 10 seconds.
Phase 4: Full CBT Simulations	Days 26 – 30	Take 3 Full-Length 100-mark DCET CBT Mocks under strict exam hall conditions.	**Lock in 20/20 Marks in IT Skills! Rank < 50!**

TOP 5 KEA DCET MASTER EXAM FORMULAS

Golden Formulas

ADVITIYA EXAM HACK

Formula 1: Port Number Triage

SSH(22) • Telnet(23) • SMTP(25) • DNS(53) • HTTP(80) • POP3(110) • HTTPS(443). Remember: If secure, check 22 or 443!

ADVITIYA EXAM HACK

Formula 2: IP Bit Calculations

IPv4 = 32 bits = 4 bytes. IPv6 = 128 bits = 16 bytes. MAC = 48 bits = 6 bytes. Question on bits? Directly calculate!

ADVITIYA EXAM HACK

Formula 3: HTTP Status Code Groups

2xx = Success • 3xx = Redirect • 4xx = Client Error (User made mistake) • 5xx = Server Error (Website server crashed).

ADVITIYA EXAM HACK

Formula 4: Browser Triad Rule

HTML builds the skeleton • CSS paints the skin • JavaScript commands the muscles. Never mix their responsibilities!