

BS SE, BS DS, MS DS Test Criteria (Test Time: 60 Minutes)

Aggregate = (10% Matric Marks + 40% Intermediate Marks + 50% Test Marks)				
Paper Pattern (Total MCQs: 100)				
No.	All Compulsory Sections	MCQs	Resource/Book	Link
1	Verbal	25 %	<ul style="list-style-type: none"> • Word Power Made Easy — Norman Lewis (Book) • High School English Grammar — Wren & Martin (Book) • Oxford Practice Grammar — Eastwood (Book) • British Council — Learn English (Website) 	<ul style="list-style-type: none"> • archive.org (free) • archive.org (free) • oup.com • britishcouncil.org
2	Quantitative(Basic Math's)	25 %	<ul style="list-style-type: none"> • Mathematics for Class 9 & 10 — Punjab Textbook Board (Book) • Quantitative Aptitude — R.S. Aggarwal (Book) • NTS Official Practice Material (Website) • Mathway — Problem Solver (Website) 	<ul style="list-style-type: none"> • ptb.edu.pk • schandpublishing.com • nts.org.pk • mathway.com
3	Computer Science	25%	<ul style="list-style-type: none"> • Principles of Computer Science— Joshua Crotts (Book) • Computer Sceince(An- Interdisciplinary Approach) — JWT (Robert Sedgewick) (Book) 	

4	Analytical	25%	<ul style="list-style-type: none">• Analytical Reasoning (Book)• A Modern Approach to Logical Reasoning — R.S. Aggarwal (Book)• Critical Thinking — Moore & Parker• NTS Analytical Sample Questions (website)• Brilliant.org — Logic & Puzzles (website)	<ul style="list-style-type: none">• ilmkidunya.com• schandpublishing.com• mheducation.com• nts.org.pk• brilliant.org
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MS DS Test Criteria (Test Time: 60 Minutes)

Paper Pattern (Total MCQs: 100)				
No.	All Compulsory Sections	MCQs	Resource/Book	Link
1	English (Verbal)	23%	<ul style="list-style-type: none"> FSC English Part-I (Class 11) Punjab Textbook Board (Book) FSC English Part-II (Class 12) Punjab Textbook Board (Book) British Council Learn English (Website) Grammarly Blog English Grammar Guide (Website) 	<ul style="list-style-type: none"> ptb.edu.pk archive.org learnenglish.britishcouncil.org grammarly.com/blog
2	Mathematics (Quantitative)	34%	<ul style="list-style-type: none"> FSC Mathematics Part-I (Class 11) Punjab Textbook Board (Book) FSC Mathematics Part-II (Class 12) Punjab Textbook Board (Book) Mathway Problem Solver (Website) Khan Academy Mathematics (Website) 	<ul style="list-style-type: none"> ptb.edu.pk archive.org (FSC Math) mathway.com khanacademy.org/math
3	Computer Science	29%	<ul style="list-style-type: none"> FSC Computer Science Part-I (Class 11) Punjab Textbook Board (Book) FSC Computer Science Part-II (Class 12) Punjab Textbook Board (Book) W3Schools Programming 	<ul style="list-style-type: none"> ptb.edu.pk archive.org (FSC CS) w3schools.com cs50.harvard.edu

			<p>Reference (Website)</p> <ul style="list-style-type: none"> • CS50 Harvard Introduction to Computer Science (Website) 	
4	Analytical	14%	<ul style="list-style-type: none"> • Analytical Reasoning M. Khalid Mahmood (Book) • FSC Mathematics (Logic/Sets chapters) Punjab Textbook Board (Book) • NTS Analytical Sample Questions (Website) • Brilliant.org Logic & Puzzles (Website) 	<ul style="list-style-type: none"> • ilmkidunya.com • ptb.edu.pk • nts.org.pk • brilliant.org