



BOARD OF SECONDARY EDUCATION, KARACHI
S.E.C. ANNUAL EXAMINATION -

SL/PH/2022/14

Max. Marks: 100

MATHEMATICS ریاضی

Time: 2 hours

کل اعلیٰ درجہ ۱۰۰

CLASS X (SCIENCE GROUP) دس ویں جماعت (سائنس گروپ)

دو گھنٹے

Section "A" (MULTIPLE CHOICE QUESTIONS) (MCQs) Marks: 50

حصہ (A) (چند گزینہ سوالات) نمبرات: ۵۰

NOTE: (i) Attempt all the Questions. (ii) Write only the answer against the proper number of the questions and do not according to the question paper.

(iii) Each question carries 2 marks.

نوٹ: (i) تمام سوالات کی کوشش کریں۔ (ii) سوالات کے نمبرات کے خلاف صرف جواب لکھیں اور سوال کے مطابق نہ ہوں۔ (iii) ہر سوال ۲ نمبرات کا ہے۔

1. Choose the correct answer from the options given below for each question.

۱. نیچے دیئے گئے جوابات میں سے ہر سوال کے لیے صحیح جواب چنیں۔

- | | |
|--|--|
| 1. $\sqrt{16} \times \sqrt{9} = \dots$ (a) 12 | 1. $\sqrt{16} \times \sqrt{9} = \dots$ (a) 12 |
| 2. If $x = 2$, then the value of $x^2 + 3x + 2$ is (b) 10 | 2. اگر $x = 2$ ہو تو $x^2 + 3x + 2$ کی قیمت (b) 10 |
| 3. The value of $\sin 30^\circ$ is (c) $\frac{1}{2}$ | 3. $\sin 30^\circ$ کی قیمت (c) $\frac{1}{2}$ |
| 4. If $\sin \theta = \frac{3}{5}$, then $\cos \theta = \dots$ (d) $\frac{4}{5}$ | 4. اگر $\sin \theta = \frac{3}{5}$ ہو تو $\cos \theta = \dots$ (d) $\frac{4}{5}$ |
| 5. The value of $\tan 45^\circ$ is (e) 1 | 5. $\tan 45^\circ$ کی قیمت (e) 1 |
| 6. The value of $\sec 60^\circ$ is (f) 2 | 6. $\sec 60^\circ$ کی قیمت (f) 2 |
| 7. The value of $\csc 30^\circ$ is (g) 2 | 7. $\csc 30^\circ$ کی قیمت (g) 2 |
| 8. The value of $\cot 45^\circ$ is (h) 1 | 8. $\cot 45^\circ$ کی قیمت (h) 1 |
| 9. The value of $\sec 90^\circ$ is (i) Not defined | 9. $\sec 90^\circ$ کی قیمت (i) تعریف نہیں کی گئی |
| 10. The value of $\csc 90^\circ$ is (j) 1 | 10. $\csc 90^\circ$ کی قیمت (j) 1 |
| 11. The value of $\cot 90^\circ$ is (k) 0 | 11. $\cot 90^\circ$ کی قیمت (k) 0 |
| 12. The value of $\tan 90^\circ$ is (l) Not defined | 12. $\tan 90^\circ$ کی قیمت (l) تعریف نہیں کی گئی |

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**Great Britain: Parliament: House of
Commons: Education Committee**

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GCSE Maths Edexcel Student Book - Higher ,2021-10-08 This superb CGP in depth Student Book covers everything you need to succeed in Edexcel 9 1 GCSE Maths It s packed with detailed accessible notes backed up with fully worked examples Practice questions and exam style questions are included throughout complete with worked solutions Each section is rounded off with a review exercise perfect for recapping all of the content pupils have learnt We ve even included handy references to the Edexcel specification and learning objectives so you know exactly which bits of the spec are covered by each part of the book The Times Index ,2010 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

Edexcel Additional Science - Foundation Tier Letts Educational,2006-09 This Success Revision Guide offers accessible content to help students manage their revision and prepare for the exam efficiently The content is broken into manageable sections and advice is offered to help build students confidence Exam tips and techniques are provided to support students throughout the revision process **My Revision Notes Edexcel AS History: Ideology, Conflict and Retreat: The USA**

in Asia, 1950-73 Robin Bunce,Laura Gallagher,2012-12-07 Written by senior examiners and experienced teachers this student revision workbook for Edexcel AS History Unit 1 Ideology Conflict and Retreat the USA in Asia 1950 73 closely combines course content with revision activities and advice on exam technique This allows students the opportunity to improve the skills needed to perform well in exam conditions through interacting with the content they need to revise In addition each section has a model answer with exam tips for students to analyse and better understand what is required in the exam **The administration of examinations for 15-19 year olds in England** Great Britain: Parliament: House of

Commons: Education Committee,2012-07-03 Additional written evidence is contained in Volume 3 available on the Committee website at www.parliament.uk/educom *2012 GCSE English results* Great Britain: Parliament: House of Commons: Education Committee,2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007 09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts raised concerns at the time but these were not acted upon by the regulator the then interim Ofqual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofqual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must

have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do

Teaching Languages with Screen Media Carmen Herrero,Marta F. Suarez,2023-06-29 In recent years the expansion of screen media including film TV music videos and computer games has inspired new tools for both educators and learners This book illustrates how screen media can be exploited to support foreign language L2 teaching and learning Drawing on a range of theories and approaches from second language acquisition audio visual translation multimodality and new media and film studies this book provides both best practices and in depth research on this interdisciplinary field Areas of screen media enhanced learning and teaching are covered across 4 sections film and broadcast media in depth case studies translation and screen media and interactive media With a focus on pedagogical approaches to teaching and learning Spanish French German and English as a Foreign Language Teaching Languages with Screen Media presents innovative insights in this new interdisciplinary field

Edexcel A Level Maths Year 2: A Level Exam Practice Workbook Paul Hunt,Rob Wagner,Steve Cavill,2020-10-08 With rubric at the front and space to write answers directly onto the page this book provides realistic practice of the actual exam The full mark scheme is available on this website

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