

## Mark Scheme

This is the scheme according to which we plan to mark the entries, with as yet unspecified weights to each item and possible bonuses to be added. What we ask you to do is fill in a column of the attached Excel sheet with a number in the boxes in accordance with the attached intended solution document and the document you submitted. Thus in the row labelled N1, you should input a number between 0 and 7; if no maximum is specified then input 0 or 1. If you are unsure whether you deserve a mark or not, indicate as much in the comments field. You may also put a reference to your document in that field (e.g. "Codes section Page 6 line 12"). We will (usually) trust you to mark yourselves fairly, and will only check in detail when two teams are close together in the running. But if you are uncertain whether you deserve a mark or not, you can ask us to decide.

Please be careful not otherwise to alter the cells of the spreadsheet!!

Inevitably, you will not have written on your sheets some things which you knew. Bad luck if so. And inevitably you will have found things we have declined to credit. If you feel strongly you deserve credit for something please append details at the end of the spreadsheet.

If teams mark their own, it should greatly accelerate the marking process. If, for whatever reason, you do not wish to mark your entry, please let us know and we'll do it ourselves. ATHMMXIX, as ever, will be there to help.

### Newsletter & Things on the Website

N1 [Max 7] Identifying the maps/silhouettes: Kansas, Czechia, Berkshire, Switzerland, Prague, Sheffield, London.

N2 [Max 2] Tally ho[1], coloured letters in Rainbow order[1]

N3 [Max 2] Tuesday 18<sup>th</sup> November => Wrong year [1], identifying 1873 [1]

N4 [Max 2] Identifying Charles Wheatstone[1] Lyon Playfair[1]

N5 Finding unique chess game

N6 [Max 2] Rod Sill = Red herring [1] No umlaut [1]

N7 [Max 2] Finding Swiss code 1011.. [1] and decrypting XEI... to WE HOPE...[1]

N8 Finding 3 Rendell novels in text

N9 Recognising Rendell's gaffe failing to report the death of a speaker

N10 Unusually heavy footwear = Stone Boots

N11 [Max 2] Lady Emma's postscript: Decode PABLORIP [1] Son Charles PABLO Wheatstone [1]

N12 [Max 2] Hunt Release: Gregorian Calendar change [1] Lyon reference to Lyon Playfair [1]

N13 Muddy Boots Award: "Have all possible paths..." = HAPPY NEW YEAR

N14 Pablo Sisniega and Pablo Neruda +SATH = Pablo's ATH

N15 Oz-spoof: identifying at least 8 links/characters.

## **THEMES**

T1 [Max 11] Identifying authors: Doyle, Stout, Christie, Gaiman, McBain, Fischer, MacLean, Steinbeck, Rendell, Rowling, Gaboriau

T2 [Max 11] Thematic books: ( Must be stated as thematic; not enough to mention the book without the bank robbery) Red-Headed League, Rubber Band, Million Dollar Bond Robbery, American Gods, Let's Hear it for the Deaf Man (or other Bank robbery book), Thought Gang, Satan Bug, How Mr Hogan Robbed a Bank, Make Death Love Me, HP and the Deathly Hallows, File 113

T3 [Max 11] Hunter references on each Page: (see table in document)

T4 [Max 10] Ruth Rendell references on pages 2-7, 9-12. (See table)

T5 [Max 12] A hill on each page. (See table)

T6 [No Max] If you found the box, please input your ticket number.

### **Page 1**

P11 [Max 10] Identifying 10 books/authors

P12 [Max 4] Plane BANKing in HILLS, HILLS on BANKS peninsula

P13 Finding "EACH PRIME LETTER"

P14 Finding "A BOAT RIDE..."

P15 Spotting OREOS shift of PSFPT

P16 [Max 2] Relating boughs of Holly to Treasure location[1] and Carol the Troll[1]

P17 [Max 2] Finding Carol, the ancient Yuletide troll on Christmas.htm[1]. Subsequently finding the Zebra[1].

### **Page 2**

P21 [Max 7] Questions

P22 [Max 12] Identifying photos

P23 Spotting "The Lion's Mane"

P24 Spotting they were red headed + 4828m = The Red-Headed League

P25 [Max 9] Other Sherlock Holmes refs: Yellow Face, Blue Carbuncle, Missing  $\frac{3}{4}$ , Greek Interpreter, "Three pipe problem", Devil's foot, Copper Beeches, Second Stain, Scandal in Bohemia

P26 Doppler dates + Doppler effect shifting Red-> Blue

P27 [Max 3] Main codes (thought first 2 are essentially the same)

P28 Spotting encryption matrix SHJW = Sherlock Holmes John Watson (Jabez Wilson accepted)

### **Page 3**

P31 [Max 7] Questions

P32 [Max 6] Stout Novels: Mother Hunt, Father Hunt, Doorbell Rang, Gambit, Golden Spiders, Black Mountain

P33 [Max 4] Stout characters: Archie Goodwin, Fritz Brenner, Saul Panzer, Horstmann(+suspension)

P34 Chess openings King's Gambit, Queen's Gambit in Hex; link to Gambit.

P35 [Max 2] (stretched) Thematic link to Rubber Band with .do cross mapping to .uk

P36 [Max 3] Main codes

P37 [Max 3] Ludo, Scarborough Fair – Scarborough Stout Rex Hill link to PLAY-FAIR[1], REX STOUT[1], HILL [1]

### **Page 4**

P41 [Max 6] Questions

P42 [Max 10] Christie Novels: Big Four, Blue Train, Crooked House, Man in Brown Suit, Curtain, Body in Library, Five Little Pigs, Cards on Table, Mystery of Hunter's Lodge, 4:50 from Paddington

P43 [Max 2] Inventor of Wheatstone Bridge[1] – Samuel = Hunter Christie [1]

P44 Westmacott alias of Christie

P45 [Max 2] Retime= Re-ti-me = DBE [1], awarded to Christie[1]

P46 [Max 3] Main Codes

P47 [Max 3] Book by Playfair, Bexhill-Bex=Hill#, THEMATRIX

### **Page 5**

P51 [Max 6] Questions

P52 [Max 7] Gaiman books Sloth (or 7 Deadly Sins), Ocean at end of Lane, Snow Glass Apples, Cinnamon, Stardust, Sandman. Moon's shadow during eclipse linking to Shadow Moon in American gods

P53 [Max 3] Main Codes

P54 [Max 2] Jefferson Fair play (Playfair) [1] Hill House – House [1] = Playfair/Hill

P55 [Max 2] Signpost to Dublin[1] with arrow to the North from Wexford[1]

### **Page 6**

P61[Max 8] Questions

P62 Identifying flowers with or without recognising Quotation.

P63 [Max 2] Identifying birds [1] with MEYER MEYER link [1]

P64 [Max 9] McBain novels Fuzz[1], 8 Black Horses[1], Mischief[1], Hark [1] All Deaf Man stories [4] as is Heckler Q2 [1]

P65 Dove with swede = Den Dove in Swedish.

P66 [Max 2] Hunter (Bjork)[1] Green arrow pointing at word "Hark" in carol[1]

P67 Steve Carell from Evan Almighty

P68 Steve Carell with A: Steve Carella Precinct 87 character

P69 [Max 3] Main Codes

P610 [Max 3] Play that goes wrong[1] performed by Mischief theatre [1 for Mischief link], New York fair + Hill's Spherical Vortex= Playfair/Hill [1]

### **Page 7**

P71 [Max 9] Questions

P72 Tim Hunter Twin peaks director

P73 [Max 3] One armed bandit Lyttleton + Hubert Humphrey – Humphrey Littleton= One armed bandit Hubert, character in Thought Gang

P74 Monty Python "Twin peaks of Kilimanjaro"

P75 [Max 3] Main codes

P76 Philosophy of Play – Must mention link to Philosophy in The Thought Gang

P77 [Max 2] "fair" by Tibor.... Fischer Hill wine - Tibor Fischer[1] Playfair/Hill [1]

### **Page 8**

P81 [Max 8] Questions, must explain crossword link

P82 [Max 8] Crossword AUTHORIS RHEOSTAT OPAQUELY CHIMETEN AIRFORCE THEMATIC  
OBSCURED INAFLEET

P83 [Max 5] MacLean books/links: Satan (Assassin) Bug, Puppet on Chain, Lawrence of Arabia, Jamaica Inn (owned by MacLean), MacLean Hunting kilt

P84 [Max 3] Main codes

P85 [Max 3] "Fear is the key" codes

P86 [Max 4] Stuart Hill[1] MacLean Hill[1] TS Playfair [1] Vigenere [1]

### **Page 9**

P91 [Max 7] Questions

P92 [Max 9] Stein of Becks[1] Red Pony, Burning Bright, Pearl, Cup of Gold [4], Short Reign of Pippin IV [2, must mention short reign of Jane Grey], Russian Journal [1] (of red herrings [1]).

P93 [Max 2] "Try as I might..." from Land of Nod [1], EAST OF EDEN [1]

P94 [Max 3] Main codes

P95 [Max 2] Mexico race Judy Playfair[1] and Janet Steinbeck[1]

P96 Lenox Hill hospital ATTENDED by STEINBECK

P97 [Max 7] 3 Edgars [1] Martin Beck [1] Chords CBE [2 for all, 1 for 2] All Rendell awards [1+1+1]

P98 [Max 2] Draughts Puzzle, solution [1] spells CZECHS [1]

P99 [Max 3] Decode Vigenere [1] Link to Newsletter [1] Rendell's Grandmaster title [1]

### **Page 10**

P101[Max 8] Questions

P102[Max 4] Chess Puzzle Game b5mate[1] Game Ng3mate[1] OpenLopez[1] StoneBoots[1]

P103 [Max 2] Emma STONE[1]+arrow at boots[1]

P104 [Max 3] Vige+Nere[1] Decrypt Vigenere [1] Acrostic becomes HARMDONE[1]

P105 [Max 2] Morse decryption of NIHAL SARIN [1] Link to first Chess puzzle [1]

P106 Breaking News – Game from Newsletter on diagram = SNL5 etc

P107 [Max 3] Main Codes

P108 [Max 3] Annabel Playfair [1] Braile's Hill [1] Hunters Hill College [1]

P109 [Max 3] Decrypt Huloo..algol [1] Interpretation: Stories in Newsletter[1] Page out of order [1]

### **Page 11**

P111 [Max 11] Questions

P112 [Max 10] Potter Refs: Goblet of Fire, Fawkes, Hermione, Draco, Hedwig, Lestranger, McGonagall, Necrophagus=Death eater, Expecto Patronum, Deathly Hallows Symbol.

P113 [Max 4] Stoatshead Hill[1] PortKey[1] Cursed Child [1] Binbrook/Pensacola Fair Playfair/Hill [1]

P114 Butcher of Binsbrook (Necrophagus)

P115 Keys to Ford Anglia as in Chamber of Secrets

P116 [Max 3] Main codes

### **Page 12**

P121 [Max 10] Lecoq character aliases/links

P122 [Max 2] Beranger Song[1] and significance to Lecoq story[1]

P123 [Max 10] Relevance of the matrix elements to File 113 [9] and entire matrix [1]

P124 Main code

P125 [Max 2] Cock Hill, Rooster Hill

P126 [Max 3] Lecoq Novels: Mystery of Orcival, Slaves of Paris, Disappearance

P127[Max 4] Leblanc[1], Le rouge et le noir[1], le blanc et le noir[1], L'affaire Lerouge [1]

P128 Project Gutenberg Logo

### **EXIF trail**

EX1 Locating the "Merry Xmas 19" message in the filenames

EX2 Recognising the extra text EXIF referenced the EXIF data of the pictures.

EX3 Finding "The date helps solve the code"

EX4 Identifying "Ruddigore"

EX5 Recognising that 5 of the pictures referred to the ATHs from the appropriate years.

EX6 [Max 5] "The author has the copyright."

" Look at the answers through the lens to form a word."

"Note the camera make and look for the word at the front of it. If you find the word, use the next one of the same length instead."

"Each word is a step on a long path from here."

"Step in date order of the subjects"

EX7 Identifying the authors of the 5 past ATHs from their initials

EX8 Decode the copyright field and use First 1 or Sig 1 in the questions appropriately

EX9 [Max 6] Obtain words: "heard" "deposit" "manager" "little" "wads" "incinerator"

EX10 Identify Make DLM as Make Death Love Me {Definition Letter Mixture accepted if trail stops}

EX11 [Max 6] Identify replacement words "office", "cashier", "balance", "money", "safe", "incinerator"

EX12 For mentioning the thematic theft from the Debden Incinerator

EX13 For noticing "DEB DE N" in the Enigma cipher header as a pointer to this.

EX14 For recognising the subject fields were Printers Devilry (no need to give it a name)

EX15 [Max 6] Solving the PD clues "Enigma", "Sayers", "Tarot", "Wasted", "Life", "Iain Banks" (If anyone has suggested better PD clues, we may award bonuses.)

EX16 Ordering words correctly: "office", "cashier", "balance", "money", "safe", "incinerator"

EX17 Finding ATHEXIT webpage (give order of finding as related by ATHMMXIX in response to notification e-mail)