

British Novice 2018

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Packet 07

Tossups

1. Operation Uranus was launched by one side in this battle, while the opposing side engaged in this battle as a consequence of Operation Blue. Sharpshooters whose kill count in this battle exceeded 40 were awarded the title of 'Noble Sniper', and a photo from this battle shows one such sharpshooter crouching in a bathtub as he takes aim from a ruined building. This battle began when the sixth army under general Paulus was ordered to capture its namesake location in July 1942. For 10 points, name this key battle of the Second World War, named after an industrial city on the Volga.

ANSWER: Battle of **Stalingrad** <FL>

2. Theatre roles played by this actor include Marcus Brutus in *Julius Caesar*, Walter Lee in *A Raisin in the Sun* and opposite Julia Roberts in *The Pelican Brief*. This actor's son played Ron Stallworthy in the film *BlackKkLansman*. Historical figures played by this actor include Steve Biko and Malcolm X. This three-times Oscar winner has recently appeared in films including *The Book of Eli* and *The Equalizer*, as well as reprising his role in the film version of *Fences*, which he also directed. For 10 points, name this actor, who shares his surname with an American state.

ANSWER: Denzel **Washington** <NJ>

3. In 1973, scholar Michael Talbot rediscovered 12 violin sonatas by this composer in Manchester. RV numbers denote this composer's work, including the *Gloria* he composed for the Ospedale della Pieta. Included in *The Contest Between Harmony and Invention*, this composer's best-known work includes motifs depicting barking dogs and cuckoos singing before a storm, and is a set of four violin concertos beginning with *La Primavera*, or 'Spring'. For 10 points, name this Italian Baroque composer of *The Four Seasons*.

ANSWER: Antonio **Vivaldi** <JK>

4. In a controversial mid-1990s decision, Canadian northwestern wolves were reintroduced into this national park. It's not on the Colorado river, but this national park includes a namesake Grand Canyon located on its namesake river and a tourist attraction named for its regularity. This US national park sits atop a geological hotspot and as a result is home to one of the world's largest supervolcanoes as well as the geyser Old Faithful. For 10 points, name this oldest national park in America, situated in Idaho, Montana and most prominently Wyoming.

ANSWER: **Yellowstone** National Park <NJ>

5. In 1960, a series of 90 labelled tin cans were filled with this substance in a work by Italian artist Piero Manzoni. In the third section of a 1975 film, a meal consisting of food made entirely of this substance is served to nine captured young men and women; that Pasolini film is *Salò*. This substance is categorised into seven types by the Bristol chart, and fossilised instances of this substance are known as coprolites. For 10 points, name this substance produced during the process of defecation.

ANSWER: **shit** [or **poop** or **faeces** or obvious equivalents] <JK>

6. Group 4 metallocenes can be used to control the tacticity ["tack-TISS-itty"] of these compounds during their production. Caprolactam is an important feedstock for producing one of these compounds through many condensation reactions. Ziegler-Natta catalysts are used to produce these compounds. Sulfur-based cross links are formed between isoprene-based examples of these compounds in vulcanisation. HDPE, PTFE and Nylon-6 are examples of, for 10 points, what large molecules made of many monomers?

ANSWER: **polymers** [antiprompt on "plastics" or "rubbers"]

7. A thinker from this country criticised Bernardino Telesio for clinging to a belief in two modes of natural law in *De Principiis atque Originibus*. That thinker from this country implored scientists to purge their mind of the "idols of the market and theatre". One thinker from this country equated the state of nature to a "war of all against all" in a work that claims that life on Earth is "solitary, poor, nasty, brutish, and short": that work is *Leviathan*. For 10 points, name this country that was home to Francis Bacon and Thomas Hobbes.

ANSWER: **England** [accept **Britain** or **United Kingdom** or **UK**]

8. *NOTE TO PLAYERS: The answer to this question is a function like $\cos x$ or $x+3$, but not those ones.*

This non-zero function of the inradius of a triangle is equal to the sum of this function applied to the three altitudes. The derivative of this function of $f(x)$ is equal to minus the derivative of f divided by f squared. This function of the determinant of a real matrix gives the determinant of its inverse. By definition, $\operatorname{cosec} x$ is this function of $\sin x$, and x to the power negative a is this function of x to the power a . The graph of this function is a hyperbola. For 10 points, give this function, also called the reciprocal.

ANSWER: **one over x** [or **one divided by x**; accept **reciprocal** before mentioned; accept **x to the minus 1**, or **multiplicative inverse**, or obvious descriptive equivalents; or any of these applied to $f(x)$ or $\sin(x)$; prompt on inverse] <RF>

9. One of these items may or may not have been stolen from George Bush during a 2007 meet-and-greet in Albania. An advert for one brand of these things claims "you can never own" one of these things, and "you can only look after it for the next generation". The Versa is the first "smart" one of these things to be sold by Fitbit, and a series of these items released by Apple since 2015 can send health tracking data to a user's phone. For 10 points, name these objects manufactured by Patek Philippe, Omega and Rolex.

ANSWER: **watches**

10. This poet asserts that 'I can; / Can something, hope, wish day come, not choose not to be' after a year of 'now done darkness' in one of his depression-inspired 'terrible sonnets'. In one of his poems, he delights in 'all things counter, original, spare, strange', and this poet declares 'O my chevalier!' in another poem which begins 'I caught this morning morning's minion' as it describes the flight of a kestrel. Another of his poems opens 'Glory be to God for dappled things'. Sprung rhythm was advocated by, for 10 points, which Jesuit poet of 'Carrion Comfort', 'Pied Beauty', and 'The Windhover'?

ANSWER: Gerard Manley **Hopkins** <AP>

11. One advert for this brand asks "How does Victoria get her kids and their friends to try a nice posh dip?". This brand's products were initially produced by joint enterprise Marlow Foods and is named after a village in Leicestershire. This brand uses the *fusarium venenatum* microfungus to make the mycoprotein that forms the body of its products, which are bound with albumen. Mo Farah patches up a hole in a wall in an advert for this brand described as a "healthy source of protein". For 10 points, name this popular meat-substitute brand.

ANSWER: **Quorn** <DJ>

12. A character created by this author is forced to return to England after repeatedly hearing the sound of a "boum" whilst visiting mosques. Another of this author's novels opens with Mrs. Bartlett discussing the River Arno, and details a kiss in a field of violets between the protagonist and her future husband; that

novel is about George Emerson and Lucy Honeychurch eloping after a stay in a hotel in Florence. This author described a trip to the Marabar Caves, after which Adela Quested accuses Dr. Aziz of assaulting her. For 10 points, name this author of *A Passage to India* and *A Room with a View*.

ANSWER: Edward Morgan **Forster** <BB>

13. Legend claims that St. Matthew died in this country, which is today home to the Orthodox Tewahedo Church, a word meaning “being made one” in Ge’ez. Other Christian rulers of this country built rock churches at Lalibela and ruled a kingdom centred on Axum. The Kebra Nagast details the ancient heritage of this country’s kings, which it claims descended from the Queen of Sheba and King Solomon. Much later, this country avoided colonisation by winning a battle during the reign of Menelik II. For 10 points, name this East African country which defeated an invading Italian force at the Battle of Adwa.

ANSWER: **Ethiopia** [accept **Abyssinia**] <CJ>

14. This medium was used for fin-de-siecle depictions of Parisian prostitutes and ragpickers by the artist Eugene Atget. A 1950 work in this medium in which a young couple kiss outside a town hall was created by Robert Doisneau. An artist who worked in this medium showed a man jumping over a puddle behind a station in one of his ‘decisive moments’. Henri Cartier-Bresson worked in this medium, as did pioneers like Nadar and Louis Daguerre. For ten points, name this medium of Dorothea Lange and Ansel Adams, which involves the use of cameras.

ANSWER: **photography** [or obvious equivalents] <JK>

15. An article in *Punch* describes how this structure was used to launch a successful French invasion of Britain. Items housed in this structure included a copy of the statue *The Amazon* and the sculpture *Greek Slave*, as well as the first pay toilets, which cost a penny. Although a competition was held to design this structure, the judges rejected all the proposals, and the structure was instead designed by Joseph Paxton, the head gardener at Chatham House. In 1936, this structure burnt down, 82 years after it was moved to Sydenham from Hyde Park. For 10 points, name this structure which housed the Great Exhibition of 1851.

ANSWER: the **Crystal Palace** <NJ>

16. One novel by this author ends with the line “Now vee may perhaps to begin. Yes?” A character in that novel by this author stimulates himself with a piece of liver that his mother later serves for dinner. One of this author’s characters blows up a post office in protest at the Vietnam War, and is the daughter of Swede Levov. One novel by this creator of Nathan Zuckerman centres on the masturbation-laden monologue of the title character to Dr Spielvogel. For 10 points, name this recently-deceased Jewish author of *American Pastoral* and *Portnoy’s Complaint*.

ANSWER: Philip **Roth** <JK>

17. The causative agent of this disease produces the PfEMP1 protein, causing target cells to stick to the epithelium and to each other. Tu Youyou won her Nobel prize for the discovery of artemisinin, which is now the preferred treatment for this disease. Sick cell anaemia’s continued prevalence is thought to be due to the resistance which it confers to this disease. Quinine was an early treatment for this disease. The protozoan *Plasmodium* causes, for 10 points, what disease commonly transmitted by the *Anopheles* mosquito?

ANSWER: **malaria** [accept falciparum **malaria** or cerebral **malaria**] <LC>

18. The demon Putana attempts to assassinate this figure by feeding him poisoned breast milk. This figure overthrows and kills the tyrant Kamsa, who killed all of this son of Devaki’s siblings. The hunter Jara mistakes this figure for a deer, and accidentally kills him with an arrow. A conversation between the best archer in the world and this deity makes up the Bhagavad Gita. This deity is often depicted as a young boy eating butter or playing a flute, and served as Arjuna’s charioteer during the Kurukshetra War. For 10 points, name this eighth avatar of Vishnu, a god whose name often follows the word “hare”.

ANSWER: **Krishna** [prompt on **Vishnu**] <BB>

19. In the second of four books of elegies, one poet who used this language coined the phrase 'absence makes the heart grow fonder'. A long poem in this language, consisting of a lengthy ekphrasis of a coverlet depicting a king abandoning a princess, is referenced as its author's 64th poem. One poet in this language wrote that "I hate and I love" a certain woman, and notoriously threatened to sodomise two critics of his poetry; that poet addressed several poems to his lover Lesbia. For 10 points, name this language used by Sextus Propertius and Catullus.

ANSWER: **Latin** <JK>

20. Correspondence between this ruler and Suppiluliuma, king of the Hittites and Tushratta, king of the Mittani has been excavated in a city they founded. An art style named for that city showed human figures in an exaggerated, slender style, with sculptures of this ruler showing them with an elongated skull and wide hips. This ruler founded that new capital, Amarna, as an attempt to build a new power base away from the Theban priests. Founder of a new quasi-monotheistic religion based on worship of the solar disk, for 10 points, name this Egyptian pharaoh, husband of Nefertiti, the father of Tutankhamun

ANSWER: **Akhenaten** [accept **Amenhotep IV**] <OSC>

Bonuses

1. One character in this novel is ultimately poisoned by the “Four Treacherous Ministers”. For 10 points each:

[10] Name this novel believed to be written by Shi Nai’an, which begins with the release of 108 Stars of Destiny. Wu Song and Lin Chong form part of a band of 36 warriors led by Song Jiang in this novel.

ANSWER: **Water Margin** [or **Outlaws of the Marsh**; **Tale of the Marshes**; **All Men Are Brothers**; **Men of the Marshes** or accept but DO NOT REVEAL *The Marshes of Mount Liang*]

[10] In *Water Margin*, the Outlaws of the Marsh gather at one of these locations named Liang. The Buddha traps the Monkey King Sun Wukong in one of these locations named Five Elements in *Journey to the West*.

ANSWER: **mountain** [accept **Mount** Liang or Five Elements **Mountain**]

[10] *Water Margin* and *Journey to the West* are two of the “Four Great Classic Novels” from this country, which also include *Dream of the Red Chamber* and *Romance of the Three Kingdoms*.

ANSWER: People’s Republic of **China** <EWL>

2. This class of rock is typically divided into contact and regional forms depending on the rock’s method of formation. For 10 points each:

[10] Name this class of rock, examples of which include gneiss and slate. This class of rock is typically formed under high temperatures and pressures within the crust.

ANSWER: **metamorphic**

[10] Carrara in Tuscany is famous for the quarrying of this rock formed by metamorphosis of limestone. The Holston Formation is an Ordovician-period source of this rock’s “Tennessee” type, which is faintly pink.

ANSWER: **marble** [accept Tennessee **marble**]

[10] Marble, chalk and limestone are mainly formed from this compound, which is also the main component of marine shells.

ANSWER: **calcium carbonate** [accept **CaCO3**, or **calcite**, or **aragonite**] <RB>

3. The Franciscan William of Rubruck described a silver tree built by a French goldsmith in this city, which lost importance after the founding of the Yuan dynasty. For 10 points each:

[10] Name this city in Central Asia that was the capital of the Mongol Empire from 1235 to 1260.

ANSWER: **Karakorum**

[10] This founder of the Mongol Empire rallied his troops at Karakorum in 1218 or 1219 before attacking Persia, though the city’s walls and palace were built by his son and successor Ogodei.

ANSWER: **Genghis** Khan [accept **Chinggis** Khan, accept **Temüjin**]

[10] The Mongol Empire fractured into four parts after Genghis Khan’s death, one of which was this khanate established by Batu Khan in Eastern Europe. Also known as the Kipchak Khanate, it was defeated by Prince Dmitri of Moscow at the Battle of Kulikovo.

ANSWER: **Golden Horde** <C>

4. While *Sprechgesang*, or speak-singing, was notably used by composers such as Berg and Schönberg, it has also found success in popular music. For 10 points each:

[10] Fred Schneider’s energetic use of *Sprechgesang* is a trademark of this 1989 smash hit by the B-52s. This song’s chorus describes the title location as “a little old place where we can get together”.

ANSWER: “**Love Shack**”

[10] Another use of *Sprechgesang* in popular music is this rock band’s cover of Kurt Weill’s “The Alabama Song”. This rock band also recorded “Touch Me” and “Roadhouse Blues” before their lead singer died in 1971.

ANSWER: **The Doors**

[10] A more recent use of the technique appears in the bridge of this Taylor Swift hit in which the songstress tells of her ex-man's new girlfriend who's, like, "oh, my, god". This song's chorus boldly states that "the haters gonna hate, hate, hate" and "the players gonna play, play, play".

ANSWER: "**Shake It Off**" <TDB>

5. This novel is often cited as the first great examination of 'poshlost', a peculiar Russian expression describing a sort of self-satisfied vulgarity. For 10 points each:

[10] Name this novel centred on the middle-aged Chichikov, who seeks to obtain the title entities from landowners for mysterious taxation reasons.

ANSWER: **Dead Souls**

[10] *Dead Souls* is a novel by this Ukrainian-born author, who also wrote the short stories *The Nose* and *The Overcoat*.

ANSWER: Nikolai **Gogol**

[10] Another Gogol short story is framed as one of these works written by a madman. Anne Frank wrote a celebrated one of these works in World War Two.

ANSWER: **diary** [accept "**Diary** of a Madman" or **Diary** of Anne Frank] <JK>

6. Themes from 'The Fight' in this ballet's first scene are reprised more elaborately in the 'Dance of the Knights' in its second scene, set at a ball. For 10 points each:

[10] Name this ballet, which, in its original version, departed from the Shakespeare play that was its source and had a happy ending.

ANSWER: **Romeo and Juliet**

[10] *Romeo and Juliet* is a ballet by this Russian composer who wrote the incidental music to the film *Lieutenant Kijé*. A cat is portrayed by a clarinet in their 'symphonic fairy tale', *Peter and the Wolf*.

ANSWER: Sergei **Prokofiev**

[10] Three other ballets by Prokofiev, such as *The Prodigal Son*, were written for production by this ballet company, based in Paris, whose artistic director was Sergei Diaghilev. Stravinsky's *Rite of Spring* was premiered by this ballet company, to a near-riot in the audience.

ANSWER: **Ballets Russes** <AP>

7. A baldacchino, or large canopy, in this building was designed by Bernini, who also designed the large square in front of it, which contains a large obelisk known as 'the Witness'. For 10 points each:

[10] Name this major religious building, whose current form was initially designed by Donato Bramante. It contains perhaps the best-known sculpture of the Pieta.

ANSWER: **St Peter's** Basilica

[10] That Pieta was the only sculpture signed by this artist, setting it apart from his marble *David*. This artist also painted the ceiling of the nearby Sistine Chapel.

ANSWER: **Michelangelo Buonarotti** [accept either underlined part]

[10] St Peter's is also home to the fragmentary remains of the mosaic *Navicella* by this early Renaissance artist, the architect of Florence's Campanile. A Padua chapel hosts his fresco series of the life of Christ.

ANSWER: **Giotto** di Bondone <JK>

8. This series begins with the destruction of the US Capitol building in a terrorist attack. For 10 points each:

[10] Name this ABC and Netflix political drama series in which the Secretary of Housing and Urban Development becomes President of the United States when the rest of the line of succession is killed.

ANSWER: **Designated Survivor**

[10] The show focuses on the unexpected presidency of Thomas Kirkman, who is played by this actor. This man's other TV roles include that of a counter-terrorist agent who often deals with day-long emergencies.

ANSWER: Kiefer **Sutherland**

[10] The end of the second season of *Designated Survivor* is disrupted by special prosecutor Ethan West, who is played by this man. This star of the *Back to the Future* trilogy gave up his lead role on *Spin City* to deal with symptoms of Parkinson's disease.

ANSWER: Michael J. **Fox**

9. This mountain range is home to several unrecognised states including Abkhazia and South Ossetia. For 10 points each:

[10] Name this mountain range which forms part of the boundary between Europe and Asia. It is situated between the Black Sea and the Caspian Sea.

ANSWER: **Caucasus** Mountains [accept Greater **Caucasus** or Lesser **Caucasus**]

[10] The Caucasus is the location of this highest mountain in Europe. In 1956, this peak was climbed by 400 mountaineers to celebrate its region's 400th anniversary as part of Russia.

ANSWER: Mount **Elbrus**

[10] The south-eastern end of the Greater Caucasus range approaches this capital city of Azerbaijan on the Caspian Sea. Home to the Palace of the Shirvanshahs, it hosted Eurovision in 2012 and has held an F1 Grand Prix since 2016.

ANSWER: **Baku** <NJ>

10. This person was trained as a murmillio, before escaping from a Capuan gladiator school using kitchen utensils as weapons. For 10 points each:

[10] Name this Thracian slave who was one of the leading figures in the Third Servile War, presumed killed at the Battle of the Silarius River.

ANSWER: **Spartacus**

[10] This person ordered the crucifixion of 6000 slaves along the Appian Way. A supporter of Sulla, this richest member of the First Triumvirate died fighting the Parthians at Carrhae, but almost certainly not from swallowing molten gold.

ANSWER: Marcus Licinius **Crassus**

[10] Part of Crassus's wealth came from his private operation of this kind of institution. Later, Augustus would institute a tax on the sale of slaves to fund a public version who also operated as a night watch, the *vigiles*, who had the nickname the *Spartoli*.

ANSWER: **fire-brigade** [or equivalent] <AP>

11. Discuss how to do some impossible tasks in Greek mythology, for 10 points each:

[10] When King Aeëtes asked Jason to plough a field with fire-breathing oxen and sow it with dragons' teeth, this sorceress, Aeëtes' daughter, told him how to do it. In a Euripides tragedy, she kills her children to spite Jason.

ANSWER: **Medea**

[10] This god yoked a boar and a lion to a chariot so that Admetus could marry Alcestis, who had so many suitors that an impossible feat was required for her hand. This god of music and light whose Pythian oracle was based at Delphi, was the brother of Artemis.

ANSWER: **Apollo**

[10] Psyche managed to sort a massive pile of mixed grains and pulses in a day when one of these animals offered help. Daedalus used one of these animals to run a piece of thread through a seashell.

ANSWER: **ants** [prompt on insects] <RF>

12. The Salisbury tourist board has had a bit of a tough time recently. For 10 points each:

[10] In March 2018, this former Russian military officer and double agent for the UK's intelligence services was found unconscious on a bench in Salisbury with his daughter Yulia.

ANSWER: Sergei Viktorovich **Skripal**

[10] The Skripals were poisoned by A-234, a member of a series of nerve agents known by this name, from the Russian for "beginner".

ANSWER: **Novichok**

[10] In September and October 2018, this investigative website, founded by journalist Eliot Higgins, published the identities of the two suspects in the poisoning as Anatoliy Chepiga and Alexander Mishkin.

ANSWER: **Bellingcat** <DJL>

13. The time constant of a circuit containing this device and a resistor is given by this device's namesake quantity and the resistance. For 10 points each:

[10] Give this passive device, used in RLC circuits along with resistors and inductors. They are often described as storing charge and can be analysed in their "parallel plate" variety.

ANSWER: **capacitors** [accept **condenser**]

[10] Capacitors, resistors and inductors can be used in these electronic circuits used for signal processing. Types of these electronic circuits include high-pass, low-pass and band-pass.

ANSWER: electronic **filters** [accept high-pass **filter**, low-pass **filter**, band-pass **filter**, or any other type of **filter**]

[10] An active high-pass filter can also be made using a capacitor, a resistor and one of these devices connected up in negative feedback. An ideal one of these devices has an infinite closed loop gain and maintains no voltage across its two input terminals.

ANSWER: **operational amplifier** <JR>

14. This philosopher is the first known to have emphasised the importance of the *logos*, describing it as 'what is common'. For 10 points each:

[10] Name this 'weeping philosopher', the author of a number of cryptic statements, who was quoted by Plato as writing that one could not step into the same river twice.

ANSWER: **Heraclitus**

[10] Heraclitus argued that this classical element was the *arche*, or fundamental force, from which all other elements derived. In the *Timaeus*, Plato associated this element with the tetrahedron, due to that shape's sharp points.

ANSWER: **fire**

[10] Heraclitus is often paired with Democritus, the 'laughing philosopher', known for proposing that the universe was made up of empty space and these small indivisible particles.

ANSWER: **atoms** <AP>

15. Answer some questions about the wonders of chess. For 10 points each:

[10] This chess piece is located next to the knight in the starting position. It has no restrictions in distance for each move, but it can only move diagonally.

ANSWER: **bishop**

[10] This pattern of development in chess involves the bishop developing to the second rank of the adjacent knight file, after the knight pawn has been moved one or two squares forward.

ANSWER: **fianchetto**

[10] One of the most popular chess openings, particularly for Black, this chess opening is named after a quote from an old Italian manuscript, and it begins with the moves 'e4 c5'.

ANSWER: **Sicilian** Defence

16. In a 1930 book of literary criticism, types of this concept include both the metaphor as well as instances when a statement says nothing, and readers are forced to invent their own meaning. For 10 points each:

[10] Name this concept, of which a William Empson work is titled for "Seven Types" of. Empson defined this concept as when 'alternative views may be taken without sheer misreading'.

ANSWER: **ambiguity** [accept *Seven Types of **Ambiguity***]

[10] Another work that heavily influenced New Criticism was TS Eliot's essay on this character 'and his Problems'. This character's most famous soliloquy begins "To be or not to be".

ANSWER: Prince **Hamlet**

[10] Empson complained of how this author “is fond of showing us an unusually stupid person subjected to very unusually bad luck”, as in his last novel about the Christminster-obsessed *Jude the Obscure*.

ANSWER: Thomas **Hardy** <JK>

17. In one play by this author, Nora experiences a stillbirth and goes delirious while Jack is shot dead. For 10 points each:

[10] Name this author of *The Plough and the Stars* who wrote about Johnny Boyle’s betrayal of Robbie Tancred in another work.

ANSWER: Sean **O’Casey** [or John **Casey**; the other work is *Juno and the Paycock*]

[10] O’Casey wrote a trilogy of plays named after this city. *The Plough and the Stars* is set in this capital city during the Easter Rising.

ANSWER: **Dublin**

[10] This Irish poet criticised and rejected O’Casey’s play *The Silver Tassie*, leading to it having to premiere in London. This poet’s own works include “Easter, 1916” and “Sailing to Byzantium”.

ANSWER: William Butler **Yeats** <BB>

18. The lawyer Robert Aske was hanged in chains at York Castle as punishment for his leadership of this rebellion. For 10 points each:

[10] Name this popular rising with an estimated 40,000 participants, which protested Henry VIII’s religious and economic policies, such as the Dissolution of the Monasteries and the taxes imposed in the Statute of Uses.

ANSWER: the **Pilgrimage of Grace**

[10] This aristocratic rebellion of 1569, led by Charles Neville and Thomas Percy, aimed to replace Elizabeth I with her cousin Mary, Queen of Scots. It captured Durham, but was put down after failing to gather popular support.

ANSWER: **Rising** of the **North** [or the **Revolt** of the **Northern Earls**; or the **Northern Rebellion**]

[10] The only successful popular rebellion of the sixteenth century was led by this person, who deposed Lady Jane Grey in July 1553 to begin a reign dedicated to the restoration of Roman Catholicism.

ANSWER: **Mary I** [or **Mary Tudor**; prompt on “Mary”] <AP>

19. These small biomolecules are soluble in non-polar solvents and serve numerous roles including structural, signalling and storage. For 10 points each:

[10] Name this class of molecules including fats such as triglycerides and structural molecules such as cholesterol.

ANSWER: **lipids**

[10] Cholesterol is an important component of the cell membrane, which mostly comprises a bilayer of these molecules. These lipids have amphiphilic properties due to possessing a certain negative ion.

ANSWER: **phospholipids**

[10] Because phospholipids have hydrophobic tails and hydrophilic heads they can also form these spherical structures where the hydrophilic heads are all on the outside. In solution in oil, they will form inside out, with the phosphate heads on the inside.

ANSWER: **micelles** <JR>

20. This man is the namesake of legislation that was passed during the Second World War that sharply divided primary and secondary education. For 10 points each:

[10] This politician is one of only two to have served in three of four Great Offices of State, but have never been Prime Minister. This man became Chancellor under the Churchill government that came to power in 1951 and is often known by his initials.

ANSWER: R. A. ‘Rab’ **Butler**

[10] Butler's Act was the only major-piece of legislation the Conservative Government enacted as a result of this influential report, which aimed to deal with the five "Great Evils" of society.

ANSWER: **Beveridge** Report

[10] The Beveridge Report's vision of the welfare state was partially implemented by the Labour Government elected in 1945 that was led by this Prime Minister, who served as Deputy PM during World War 2.

ANSWER: Clement **Attlee**