Sukkur IBA STHP Free Practice Set B – 50 Questions

Sukkur IBA Sindh Talent Hunt Program · English, Mathematics & ICT · with answer key

Please read first

• Set B: 50 original MCQs (20 English, 20 Mathematics, 10 ICT) by MCQsAI, in the same proportion as the STHP pattern (English 40, Maths 40, ICT 20). Set A and Set B have completely different questions.

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• Suggested time: 60 minutes. Answer key and short explanations are on the last pages. Scan the QR to take the full timed test online with instant score.

Section	Questions
English	20
Mathematics	20
ICT	10
Total	**50**

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English

Q1. Identify the part of the sentence containing a spotting error: 'The committee has decided to implement the new policy from next month despite their reservations.'

A) to implement the new policy
B) despite their reservations.
C) from next month
D) The committee has decided

Q2. Choose the correct sentence: 'Neither of the students _____ their assignment yet.'

A) has submitted
B) is submitting
C) have submitted
D) are submitting

Q3. Choose the grammatically correct sentence expressing a hypothetical situation.

A) If I had been a bird, I would fly.
B) If I am a bird, I would fly.
C) If I was a bird, I would fly.
D) If I were a bird, I would fly.

Q4. Identify the type of sentence structure: 'Although the FIA conducted thorough investigations, the mastermind behind the cybercrime remained elusive.'

A) Simple Sentence
B) Complex Sentence
C) Compound Sentence
D) Compound-Complex Sentence

Q5. Find the antonym of 'Ubiquitous'.

A) Rare
B) Omnipresent
C) Widespread
D) Pervasive

Q6. Select the sentence that demonstrates correct use of commas in a complex sentence.

A) The inquiry committee's findings, which were both exhaustive and meticulously documented unequivocally pointed to widespread irregularities.
B) The inquiry committee's findings, which were both exhaustive and meticulously documented unequivocally, pointed to widespread irregularities.
C) The inquiry committee's findings which were both exhaustive and meticulously documented, unequivocally pointed to widespread irregularities.
D) The inquiry committee's findings, which were both exhaustive and meticulously documented, unequivocally pointed to widespread irregularities.

Q7. Identify the error in the following sentence: 'The FIA officer, along with his team, have apprehended the suspect.'

A) The FIA officer
B) have apprehended
C) along with his team
D) the suspect.

Q8. Identify the correct usage of the verb 'render' in a legal context.

A) The verdict was rendered by the jury after extensive deliberation.
B) The verdict was rendered upon the jury after extensive deliberation.
C) The verdict was rendered from the jury after extensive deliberation.
D) The verdict was rendered for the jury after extensive deliberation.

Q9. Choose the antonym for the word 'Ephemeral'.

A) Lasting
B) Transient
C) Momentary
D) Fleeting

Q10. Choose the synonym of 'ameliorate'.

A) worsen
B) weaken
C) improve
D) damage

Q11. Select the antonym for the word 'Dearth'.

A) abundance
B) scarcity
C) surplus
D) plenty

Q12. Choose the correctly spelled word among the following options:

A) Bureaucracy
B) Burocracy
C) Bureoucracy
D) Bureaocracy

Q13. Identify the error: "He do not like to waste his time."

A) like to
B) He
C) his time
D) do not

Q14. Choose the most appropriate synonym for the word 'Vigilant'.

A) Lethargic
B) Negligent
C) Indifferent
D) Careful

Q15. Which idiom best describes a situation where someone's ideas or suggestions are deliberately ignored or treated with unfriendliness?

A) His proposals were met with a cold shoulder by the ministry.
B) His proposals were met with a keen interest by the ministry.
C) His proposals were met with an open arm by the ministry.
D) His proposals were met with a warm welcome by the ministry.

Q16. Choose the correct preposition: She is very fond _____ reading Urdu poetry.

A) to
B) on
C) at
D) of

Q17. Which option correctly uses lexical inversion to emphasize the degree of an event's impact?

A) Such profound was the impact of the economic crisis that
B) The impact of the economic crisis was so profound that
C) So profound was the impact of the economic crisis that
D) So profound the impact of the economic crisis was that

Q18. Choose the sentence with the correct tense: 'By next year, I _____ my degree from the University of Punjab.'
A) have completed
B) am completing
C) will complete
D) will have completed

Q19. Change the following sentence into indirect speech: The Director said, 'I have reviewed the audit reports.'
A) The Director said he reviews the audit reports.
B) The Director said he will review the audit reports.
C) The Director said that he has reviewed the audit reports.
D) The Director said that he had reviewed the audit reports.

Q20. Identify the sentence with the correct active voice construction.
A) The committee submitted the report yesterday.
B) The report was submitted by the committee yesterday.
C) Yesterday, the report had been submitted by the committee.
D) By the committee, the report was submitted yesterday.

Mathematics

Q21. A grocer sold 1/5th of his stock of Basmati rice on Monday and 3/10th of the remaining stock on Tuesday. What fraction of the original stock is left?
A) 3/5
B) 7/10
C) 14/25
D) 1/2

Q22. The sum of the ages of a father and his son is 60 years. If the father is 3 times as old as his son, what is the son's age?
A) 10 years
B) 45 years
C) 15 years
D) 20 years

Q23. A worker earns Rs. 1,500 for 5 hours of work. How much will he earn if he works for 8 hours at the same hourly rate?
A) Rs. 2,500
B) Rs. 2,400
C) Rs. 2,000
D) Rs. 2,200

Q24. Solve for x: 3x + 7 = 22
A) 15
B) 5
C) 3
D) 7

Q25. An ASF official's daily duty roster involves 8 hours of work. If he spends 1/4 of his duty time on patrolling and 1/8 on administrative tasks, how many hours does he spend on other duties?
A) 4.5 hours
B) 5 hours
C) 5.5 hours
D) 4 hours

Q26. A student scored 75 out of 80 marks in a Math test. What percentage did the student achieve?

A) 95.25%
B) 91.75%
C) 93.75%
D) 90.25%

Q27. Find the Least Common Multiple (LCM) of 12, 18, and 30.

A) 90
B) 360
C) 120
D) 180

Q28. An FIA officer's monthly salary is PKR 80,000. If 15% is deducted for taxes and provident fund, what is the net salary received?

A) PKR 65,000
B) PKR 68,000
C) PKR 72,000
D) PKR 60,000

Q29. A surveyor working for a land revenue department wants to calculate the area of a triangular plot of land near Sukkur. The sides of the plot measure 13 meters, 14 meters, and 15 meters. What is the area of this triangular plot (in square meters)?

A) 105 square meters
B) 78 square meters
C) 84 square meters
D) 91 square meters

Q30. Ahmed is currently three times as old as his son. In 10 years, Ahmed will be twice as old as his son. What is the son's current age?

A) 15 years
B) 12 years
C) 10 years
D) 8 years

Q31. A car travels from City A to City B at an average speed of 60 km/h and returns from City B to City A at an average speed of 40 km/h. What is the average speed for the entire round trip?

A) 40 km/h
B) 45 km/h
C) 48 km/h
D) 50 km/h

Q32. If 60% of students in a class of 50 in a Karachi school are boys, how many girls are there in the class?

A) 35
B) 20
C) 25
D) 30

Q33. An arithmetic progression has its 5th term as 22 and its 11th term as 46. What is the common difference of this progression?

A) 3
B) 6
C) 4
D) 5

Q34. Find the next number: 2, 6, 12, 20, 30, ?

A) 42
B) 38
C) 40
D) 44

Q35. An item is sold for PKR 1,800, making a profit of 20%. What was the original cost price of the item?

A) PKR 1,500
B) PKR 1,440
C) PKR 1,600
D) PKR 1,550

Q36. The sum of three consecutive odd numbers is 147. What is the largest of these numbers?

A) 53
B) 47
C) 49
D) 51

Q37. The average daily cases reported in a city for the past 5 days were 120, 135, 110, 140, and 105. What is the average number of cases per day?

A) 120
B) 122
C) 125
D) 124

Q38. A courier service charges PKR 150 for the first 2 kg and PKR 40 for each additional kg. What would be the charge for a parcel weighing 7.5 kg?

A) PKR 370
B) PKR 350
C) PKR 330
D) PKR 310

Q39. What is 25% of 800?

A) 100
B) 400
C) 300
D) 200

Q40. A spherical water tank, typically used in remote areas of Balochistan, has a radius of 3 meters. What is its volume? (Use π ≈ 3.14)

A) 37.68 cubic meters
B) 113.04 cubic meters
C) 18.84 cubic meters
D) 75.36 cubic meters

ICT

Q41. What is the primary function of a web browser?

A) To create and edit documents
B) To access and display web pages
C) To send and receive emails
D) To manage computer files

Q42. Which network topology uses a central hub or switch to connect all devices?

A) Bus topology
B) Ring topology
C) Star topology
D) Mesh topology

Q43. If 'PAKISTAN' is coded as 'QBLJTUBO', how would 'LAHORE' be coded using the same logic?
A) MBJPSF
B) MBIQSF
C) MBIPSF
D) KZGNQD

Q44. A digital signature in an email ensures which two aspects primarily?
A) Confidentiality and integrity
B) Integrity and availability
C) Confidentiality and non-repudiation
D) Authenticity and non-repudiation

Q45. Which type of software is necessary for a computer to function and manage its hardware?
A) Utility Software
B) Programming Software
C) Application Software
D) System Software

Q46. Which of the following is NOT a characteristic of Random Access Memory (RAM)?
A) Allows direct access to any memory location
B) Stores data permanently
C) Volatile memory
D) Faster than hard disk drives

Q47. In MS Word, which feature is used to apply a consistent design to an entire document, including fonts, colours, and effects?
A) Styles
B) Formatting Painter
C) Themes
D) Templates

Q48. Which of the following is an input device?
A) Keyboard
B) Printer
C) Monitor
D) Speaker

Q49. Which of the following is an example of volatile memory?
A) Hard Disk Drive
B) RAM
C) Solid State Drive
D) ROM

Q50. What is the primary function of an operating system (OS) in a computer?
A) To manage hardware and software resources.
B) To design websites and web applications.
C) To play high-definition video games.
D) To create digital art and graphics.

Answer Key

Q1: B	Q2: A	Q3: D	Q4: B	Q5: A	Q6: D	Q7: B	Q8: A	Q9: A	Q10: C
Q11: A	Q12: A	Q13: D	Q14: D	Q15: A	Q16: D	Q17: C	Q18: D	Q19: D	Q20: A
Q21: C	Q22: C	Q23: B	Q24: B	Q25: B	Q26: C	Q27: D	Q28: B	Q29: C	Q30: C
Q31: C	Q32: B	Q33: C	Q34: A	Q35: A	Q36: D	Q37: B	Q38: A	Q39: D	Q40: B

Q41: B	Q42: C	Q43: C	Q44: D	Q45: D	Q46: B	Q47: C	Q48: A	Q49: B	Q50: A

Next step

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Explanations

Q1 · B · Sentence Spotting Errors · medium
The pronoun 'their' refers to 'the committee', which is a singular collective noun here. Therefore, it should be 'its' reservations, not 'their'.

Q2 · A · Grammar · medium
'Neither of' takes a singular verb because it refers to 'not one'.

Q3 · D · Grammar Usage · hard
For hypothetical or unreal conditions in the past or present, the subjunctive mood is used, which often uses 'were' for all persons, including 'I'. This is known as the second conditional.

Q4 · B · Grammar Usage and Sentence Structuring · medium
This is a complex sentence because it contains an independent clause ('the mastermind behind the cybercrime remained elusive') and a dependent clause ('Although the FIA conducted thorough investigations') joined by a subordinating conjunction ('Although').

Q5 · A · Synonyms & Antonyms · medium
Ubiquitous means present, appearing, or found everywhere. 'Rare' means not occurring very often, making it the antonym.

Q6 · D · Sentence Correction and Error Detection · hard
The phrase 'which were both exhaustive and meticulously documented' is a non-restrictive relative clause, providing additional information, and thus should be set off by commas on both sides.

Q7 · B · Complex Sentence Structuring and Error Detection · medium
When a singular subject is followed by phrases like 'along with', 'as well as', 'in addition to', the verb should agree with the singular subject. Here, 'The FIA officer' is singular, so the verb should be 'has apprehended'.

Q8 · A · Legal and Official Vocabulary · hard
In a legal context, 'to render a verdict' means to officially announce or deliver a judgment, and it is typically 'rendered by' the jury or court.

Q9 · A · Vocabulary & Synonyms/Antonyms · medium
'Ephemeral' means lasting for a very short time. 'Lasting' means enduring or continuing for a long time, making it the antonym.

Q10 · C · Vocabulary (Synonyms and Antonyms) · medium
'Ameliorate' means to make something bad better, so its synonym is 'improve'. The other options mean the opposite.

Q11 · A · Antonyms · medium
Dearth means a scarcity or lack of something. 'Abundance' is its direct opposite.

Q12 · A · Spellings · easy
The correct spelling is 'Bureaucracy', which refers to a system of government in which most of the important decisions are made by state officials rather than by elected representatives.

Q13 · D · Error Detection · easy
Third-person singular takes "does not".

Q14 · D · Vocabulary (Synonyms) · easy
'Vigilant' means keeping careful watch for possible danger or difficulties. 'Careful' is the closest synonym.

Q15 · A · Idioms and Phrases · medium
'To give a cold shoulder' means to deliberately ignore someone or treat them in an unfriendly way.

Q16 · D · Prepositions and Conjunctions · easy
The adjective 'fond' is always followed by 'of': 'She is very fond of reading Urdu poetry.'

Q17 · C · Lexical Inversion · medium
Lexical inversion for emphasis, especially with 'so' + adjective, requires the inversion of the auxiliary/main verb and the subject. 'So profound was the impact...' is the correct structure.

Q18 · D · Tenses · medium
The phrase 'By next year' indicates a future perfect tense, signifying an action that will be completed by a certain time in the future.

Q19 · D · Direct/Indirect Speech · medium
When converting direct speech in the present perfect tense to indirect speech, the tense shifts to the past perfect tense. 'I' becomes 'he' and 'have reviewed' becomes 'had reviewed'.

Q20 · A · Active and Passive Voice · medium
In active voice, the subject performs the action. Here, 'the committee' (subject) performed the action of 'submitting the report'.

Q21 · C · Fractions & Decimals · medium
After Monday, 4/5 is left. Tuesday sold 3/10 of 4/5 = 6/25. Left = 4/5 - 6/25 = 20/25 - 6/25 = 14/25.

Q22 · C · Word Problems (Age, Distance, Time, Work) · medium
Let the son's age be 'x'. Then the father's age is '3x'. Their sum is x + 3x = 60, so 4x = 60. Therefore, x = 15 years.

Q23 · B · Arithmetic · easy
Hourly rate = Rs. 1,500 / 5 hours = Rs. 300 per hour. Earnings for 8 hours = Rs. 300/hour * 8 hours = Rs. 2,400.

Q24 · B · Linear Equations · easy
3x = 15, so x = 5.

Q25 · B · Fractions · medium
Patrolling = 1/4 x 8 = 2 hours, admin = 1/8 x 8 = 1 hour. Other duties = 8 - 2 - 1 = 5 hours.

Q26 · C · Percentages & Ratios · easy
Percentage = (Marks Obtained / Total Marks) * 100 = (75 / 80) * 100 = (15 / 16) * 100 = 0.9375 * 100 = 93.75%.

Q27 · D · Arithmetic (LCM) · medium
Prime factorization: 12 = 2^2 × 3, 18 = 2 × 3^2, 30 = 2 × 3 × 5. LCM = 2^2 × 3^2 × 5 = 4 × 9 × 5 = 180.

Q28 · B · Percentages and Ratios · medium
Deduction = 15% of 80,000 = (15/100) * 80,000 = 12,000 PKR. Net salary = 80,000 - 12,000 = 68,000 PKR.

Q29 · C · Geometry (Spherical and Planar applications) · hard
This can be solved using Heron's formula. First, find the semi-perimeter (s): s = (13 + 14 + 15) / 2 = 42 / 2 = 21 meters. Area = √(s(s-a)(s-b)(s-c)) = √(21 * (21-13) * (21-14) * (21-15)) = √(21 * 8 * 7 * 6) = √(7056) = 84 square meters.

Q30 · C · Word Problems (Age) · hard
Let the son's age be S, so Ahmed is 3S. In 10 years: 3S + 10 = 2(S + 10), so 3S + 10 = 2S + 20 and S = 10 years.

Q31 · C · Arithmetic · hard
Let the distance between City A and City B be 'D'. Time taken to go from A to B = D/60. Time taken to return from B to A = D/40. Total distance = D + D = 2D. Total time = (D/60) + (D/40) = (2D/120) + (3D/120) = 5D/120 = D/24. Average speed = Total distance / Total time = 2D / (D/24) = 2D * (24/D) = 48 km/h.

Q32 · B · Percentages · easy
Number of boys = 60% of 50 = (60/100) * 50 = 30 boys. Number of girls = Total students - Number of boys = 50 - 30 = 20 girls.

Q33 · C · Arithmetic Progression · medium
For an arithmetic progression, the nth term is given by a_n = a + (n-1)d. Given a_5 = 22, so a + 4d = 22 (Equation 1). Given a_11 = 46, so a + 10d = 46 (Equation 2). Subtract Equation 1 from Equation 2: (a + 10d) - (a + 4d) = 46 - 22. 6d = 24. d = 4.

Q34 · A · Number Sequences · medium
Differences increase by 2: 4, 6, 8, 10, 12 → 30 + 12 = 42.

Q35 · A · Percentages, Profit and Loss · medium
Let the cost price be C. Selling Price = C + 20% of C = 1.20C. So, 1.20C = 1800. C = 1800 / 1.20 = 1500. The original cost price was PKR 1,500.

Q36 · D · Basic Algebra & Equations · medium
Let the three consecutive odd numbers be x, x+2, and x+4. Their sum is x + (x+2) + (x+4) = 147. So, 3x + 6 = 147. 3x = 141. x = 47. The numbers are 47, 49, and 51. The largest number is 51.

Q37 · B · Average / Mean · medium
Sum of cases = 120 + 135 + 110 + 140 + 105 = 610. Average = Sum / Number of days = 610 / 5 = 122.

Q38 · A · Simple Word Problems · hard
Cost for first 2 kg = PKR 150. Additional weight = 7.5 kg - 2 kg = 5.5 kg. Cost for additional weight = 5.5 kg * PKR 40/kg = PKR 220. Total charge = 150 + 220 = PKR 370.

Q39 · D · Fractions, Decimals, and Percentages · easy
To find 25% of 800, multiply 800 by 0.25: 800 * 0.25 = 200.

Q40 · B · Geometry (Spherical applications) · medium
The volume of a sphere is given by the formula V = (4/3)πr³. Given r = 3 meters. V = (4/3) * 3.14 * (3)³ = (4/3) *

3.14 * 27 = 4 * 3.14 * 9 = 12.56 * 9 = 113.04 cubic meters.

Q41 · B · Internet and Email · medium
A web browser is software used to access, retrieve, and display content on the World Wide Web, such as web pages, images, and videos.

Q42 · C · Computer Fundamentals · medium
In a star topology, each device in the network is connected to a central hub or switch, making it a common choice for local area networks (LANs).

Q43 · C · Basic Logical Reasoning · medium
Each letter moves one step forward (P to Q, A to B, K to L ...). So L-M, A-B, H-I, O-P, R-S, E-F gives MBIPSF.

Q44 · D · Internet and Email · hard
A digital signature primarily provides authenticity (verifying the sender's identity) and non-repudiation (preventing the sender from denying they sent the email). While it can contribute to integrity indirectly by revealing tampering, its core functions are authenticity and non-repudiation.

Q45 · D · Hardware and Software · easy
System software, such as the operating system, manages and controls the computer hardware and software resources, providing a platform for other software to run.

Q46 · B · Hardware and Software · medium
RAM is volatile memory, meaning it loses its contents when the power is turned off. It does not store data permanently; that is the function of storage devices like HDDs or SSDs.

Q47 · C · MS Office · medium
Themes in MS Word allow users to change the overall look of a document by applying a predefined set of colours, fonts, and effects.

Q48 · A · Hardware and Software · easy
A keyboard sends data into the computer.

Q49 · B · Hardware and Software · hard
Volatile memory requires power to maintain the stored information. RAM (Random Access Memory) is a primary example, losing its data when the power is turned off.

Q50 · A · Software · easy
An operating system manages all computer hardware and software resources, acting as an intermediary between the user and the hardware.

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