Bio Medical Engineer 21M2024, Labour and Human Resources Department — 2024 · Solved Past Paper

Body: Punjab Public Service Commission (PPSC) · **Post:** Bio Medical Engineer 21M2024, Labour and Human Resources Department · **Year:** 2024 · **Questions:** 40 in the original paper — **39 solved and verified**, 1 excluded as defective (Q4) · **Price:** Free

> **How to use this paper:** each question shows the stem, the four options, and the correct answer. Click “Why each option?” under a question to see all four options explained — one question teaches four topics. General Knowledge answers are as of the 2024 sitting.

Source note: test360.pk full keyed reproduction, 'Model Paper PPSC 2024 Bio Medical Engineer 21M2024 Labour and Human Resources 10-08-2024' (40 questions numbered 1-40, all 40 with a single printed key; accessed 9 Nov 2026). No built paper of this sitting exists. 1 printed-key correction (Q9, D to A); 1 PICK-ONE (Q31); 1 DEFECTIVE-excluded (Q4), decided by the assistant under the owner's 8 Nov 2026 delegation. Answers verified independently against reference facts, worked derivations and targeted sources, never from the printed key alone.

Question 1 Pakistan Studies

How many members present Anthem, by which, Hafeez jalandhari was chosen?

- A. 15 ✓ **Correct answer**
- B. 10
- C. 20
- D. 25

number of lines in Pakistan's national anthem (Qaumi Tarana).

B. 10 is not the number of lines in the anthem.

C. 20 is not the number of lines in the anthem.

D. 25 is not the number of lines in the anthem.

Note: Note: REPRODUCTION NOTE: the stem is garbled as printed ('How many members present Anthem, by which, Hafeez jalandhari was chosen?'); the keyed number 15 is the anthem's line count (PakistanPaedia: the anthem 'had 15 lines'). Filed as printed. Decided by assistant under owner's 8 Nov 2026 delegation.

Question 2 Everyday Science

Why do warm - blooded animals keep their blood warm

- A. To keep breathing
- B. For food
- C. For digestion ✓ **Correct answer**
- D. For growth

A. Keeping warm is not done to keep breathing.

B. Keeping warm is not done for food itself.

C. A steady warm body temperature keeps the body's enzymes and digestion working at their optimum, so warm-blooded animals maintain it for digestion.

D. Keeping warm is not done for growth itself.

Question 3 Sports

Current women's cricket team captain of Pakistan?

- A. Javeria Khan
- B. Nida dar ✓ **Correct answer**

- D. Kaynat Imtiaz

A. Javeria Khan was not the women's captain at the exam date (10 August 2024).

B. Nida Dar was Pakistan's women's cricket team captain at the exam date (10 August 2024).

C. Bismah Maroof was not the women's captain at the exam date (10 August 2024).

D. Kainat Imtiaz was not the women's captain at the exam date (10 August 2024).

Question 4 Sports

Latest Azlan Shah Cup winner:

- A. Pakistan
- B. India
- C. Malaysia
- D. Australia

No answer is given for this question, and none is taught. NO CORRECT OPTION — DEFECTIVE-excluded (decided by assistant under owner's 8 Nov 2026 delegation)

A. Pakistan did not win the 2024 Azlan Shah Cup; Pakistan was the runner-up.

B. India did not win the 2024 Azlan Shah Cup.

C. Malaysia did not win the 2024 Azlan Shah Cup.

D. Australia did not win the 2024 Azlan Shah Cup.

Question 5 General Knowledge

Current Secretary General of UNO?

- A. Kofi Annan

onio Guterres ✓ **Correct answer**

- C. Ban ki -moon
- D. Boutros Boutros Ghali

A. Kofi Annan is a former Secretary-General, not the current one at the exam date.

B. Antonio Guterres was the Secretary-General of the UNO at the exam date (10 August 2024).

C. Ban Ki-moon is a former Secretary-General, not the current one at the exam date.

D. Boutros Boutros-Ghali is a former Secretary-General, not the current one at the exam date.

Question 6 General Knowledge

Oldest forest of Pakistan:

- A. Changa Manga
- B. Ziarat Juniper Forest ✓ **Correct answer**
- C. Ranikot
- D. Kirthar

A. Changa Manga is a planted forest, not the oldest forest of Pakistan.

B. The Ziarat Juniper Forest is the oldest forest of Pakistan.

C. Ranikot is a fort, not a forest.

D. Kirthar is a national park and mountain range, not the oldest forest.

Question 7 Everyday Science

Battery Converse with energy into energy electrical?

- A. Mechanical energy
- B. Chemical energy ✓ **Correct answer**

rmal energy

- D. solar energy

A. A battery does not convert mechanical energy into electrical energy.

B. A battery converts stored chemical energy into electrical energy.

C. A battery does not convert thermal energy into electrical energy.

D. A battery does not convert solar energy into electrical energy.

Question 8 Physics

What is the unit of magnetic flux?

- A. Tesla
- B. Gauss
- C. Weber ✓ **Correct answer**
- D. Maxwell

A. Tesla is the unit of magnetic flux density, not of magnetic flux.

B. Gauss is the CGS unit of magnetic flux density, not of magnetic flux.

C. Weber is the SI unit of magnetic flux.

D. Maxwell is the CGS unit of magnetic flux, not the SI unit asked for here.

Question 9 Physics

Least count multiple of vernier clipper

- A. 0.02mm ✓ **Correct answer**
- B. 0.01mm
- C. 0.05mm
- D. 0.1mm

ard least count of a vernier caliper is 0.02 mm (50-division vernier).

B. 0.01 mm is the resolution of a digital caliper, not the standard vernier least count.

C. 0.05 mm is the least count of a 20-division vernier, not the standard 50-division one.

D. 0.1 mm is the least count only of a 10-division vernier, not the standard one.

Note: Note: PRINTED-KEY CORRECTION: D to A. The standard least count of a vernier caliper is 0.02 mm (1 mm main-scale division divided by 50 vernier divisions); 0.1 mm belongs only to a 10-division vernier (Kelibron; Bharat Skills Turner theory). Decided by assistant under owner's 8 Nov 2026 delegation.

Question 10 Everyday Science

Birds are:

- A. Cold -blooded
- B. Warm - blooded ✓ **Correct answer**
- C. Both A&B
- D. None of these

A. Birds are not cold-blooded.

B. Birds are warm-blooded: they maintain a constant body temperature.

C. Birds are not both cold- and warm-blooded.

D. One of the options is right, so 'None of these' is wrong.

Question 11 Everyday Science

Hydrophobia is a symptom of which of the following diseases?

- A. Malaria
- B. Cholera
- C. Smallpox

ies ✓ **Correct answer**

A. Hydrophobia (fear of water) is not a symptom of malaria.

B. Hydrophobia is not a symptom of cholera.

C. Hydrophobia is not a symptom of smallpox.

D. Hydrophobia is a classic symptom of rabies.

Question 12 Current Affairs

American candidate of president from Democratic Party

- A. Kamala Harris ✓ **Correct answer**
- B. Elizabeth Warren
- C. Amy klobuchar
- D. Stacey Abrams

A. Kamala Harris was the Democratic Party's presidential candidate at the exam date (10 August 2024), after Joe Biden withdrew on 21 July 2024.

B. Elizabeth Warren was not the Democratic presidential candidate at the exam date.

C. Amy Klobuchar was not the Democratic presidential candidate at the exam date.

D. Stacey Abrams was not the Democratic presidential candidate at the exam date.

Question 13 Sports

Which team won the Pakistan super league 2019?

- A. Quetta Gladiators ✓ **Correct answer**
- B. Karachi Kings
- C. Peshawar zalmi
- D. Islamabad United

adiators won the Pakistan Super League in 2019.

B. Karachi Kings did not win the PSL in 2019.

C. Peshawar Zalmi did not win the PSL in 2019.

D. Islamabad United did not win the PSL in 2019.

Question 14 Computer Science

A database that contain tables linked by common fields is called a.....

- A. Relational database ✓ **Correct answer**
- B. Non - relational database
- C. Distributed database
- D. Cloud database

A. A database whose tables are linked by common fields is a relational database.

B. A non-relational database does not link tables by common fields.

C. A distributed database is spread across locations, not defined by linked tables.

D. A cloud database is hosted in the cloud, not defined by linked tables.

Question 15 Computer Science

Which of the following shortcut keys is used to align the selected text to the left in MS world?

- A. Ctrl +C
- B. Ctrl+R
- C. Ctrl+L ✓ **Correct answer**
- D. Alt+L

A. Ctrl+C copies text, it does not align text to the left.

ns text to the right, not to the left.

C. Ctrl+L aligns the selected text to the left in MS Word.

D. Alt+L is not the left-align shortcut in MS Word.

Question 16 Computer Science

"Add new hardware" option exist in?

- A. Title bar
- B. Status bar
- C. Control panel ✓ **Correct answer**
- D. Taskbar

A. The 'Add new hardware' option is not on the title bar.

B. The 'Add new hardware' option is not on the status bar.

C. The 'Add new hardware' option exists in the Control Panel.

D. The 'Add new hardware' option is not on the taskbar.

Question 17 Computer Science

In Windows operating system,_____is known as a file Manager.

- A. Windows explorer ✓ **Correct answer**
- B. MS Word
- C. MS Excel
- D. Device driver

A. Windows Explorer is the file manager in the Windows operating system.

B. MS Word is a word processor, not a file manager.

C. MS Excel is a spreadsheet, not a file manager.

Driver is software for hardware, not a file manager.

Question 18 Computer Science

Slide_____are the effects that determine Hawa slide moves in and out of the view in the slideshow.

- A. Animation
- B. Transition ✓ **Correct answer**
- C. Layout
- D. Templates

A. Animation is the effect on an object, not how a slide moves in and out of view.

B. Transition is the effect that determines how a slide moves in and out of view in a slideshow.

C. Layout is the arrangement of content on a slide, not the movement effect.

D. Templates are ready-made designs, not the movement effect.

Question 19 General Knowledge

Where was the headquarters of SEATO?(5Time)

- A. Bangkok ✓ **Correct answer**
- B. Manila
- C. Jakarta
- D. Kuala Lumpur

A. The headquarters of SEATO was in Bangkok.

B. Manila was not the headquarters of SEATO.

C. Jakarta was not the headquarters of SEATO.

D. Kuala Lumpur was not the headquarters of SEATO.

20 General Knowledge

Capital of New Zealand is:

- A. Canberra
- B. Tirana
- C. Algeria
- D. Wellington ✓ **Correct answer**

A. Canberra is the capital of Australia, not of New Zealand.

B. Tirana is the capital of Albania, not of New Zealand.

C. Algiers (Algeria) is a country and its capital, not the capital of New Zealand.

D. Wellington is the capital of New Zealand.

Question 21 General Knowledge

Currency of Bhutan is:

- A. Ngultrum ✓ **Correct answer**
- B. Riyal
- C. Euro
- D. Yen

A. The Ngultrum is the currency of Bhutan.

B. The Riyal is not the currency of Bhutan.

C. The Euro is not the currency of Bhutan.

D. The Yen is the currency of Japan, not of Bhutan.

Question 22 Geography

Neelam Valley is in:

d Kashmir ✓ **Correct answer**

- B. Abbotababad
- C. Muzaffarabad
- D. Swat

A. Neelam Valley is in Azad Kashmir.

B. Abbottabad is a city in Khyber Pakhtunkhwa, not where Neelam Valley is.

C. Muzaffarabad is a city in Azad Kashmir, but the valley itself is the answer's region, and the listed region is Azad Kashmir.

D. Swat is a valley in Khyber Pakhtunkhwa, not Neelam Valley.

Question 23 Geography

Which country has longest coastline?

- A. Australia
- B. Canada ✓ **Correct answer**
- C. Malaysia
- D. None of these

A. Australia does not have the longest coastline in the world.

B. Canada has the longest coastline in the world.

C. Malaysia does not have the longest coastline in the world.

D. One of the options is right, so 'None of these' is wrong.

Question 24 Sports

How many times Pakistan became Olympics champion in Hockey:

- A. Two
- B. Three ✓ **Correct answer**

- D. Five

A. Pakistan has been Olympic hockey champion more than twice.

B. Pakistan became Olympic champion in hockey three times (1960, 1968 and 1984).

C. Pakistan has not been Olympic hockey champion four times.

D. Pakistan has not been Olympic hockey champion five times.

Question 25 Pakistan Studies

Indian rebellion of 1857 (War of independence) began on 10th may from the town of:

- A. Jhansi
- B. Gwalior
- C. Meerut ✓ **Correct answer**
- D. Lucknow

A. The 1857 rebellion did not begin from Jhansi.

B. The 1857 rebellion did not begin from Gwalior.

C. The Indian rebellion of 1857 began on 10 May from Meerut.

D. The 1857 rebellion did not begin from Lucknow.

Question 26 Pakistan Studies

Which Pakistani Prime Minister also President of Pakistan Hockey Federation?

- A. Ch Muhammad Ali
- B. Shaukat Aziz
- C. Mir zafarullah Khan Jamali ✓ **Correct answer**
- D. Nawaz Sharif

Muhammad Ali was not the prime minister who also headed the Pakistan Hockey Federation.

B. Shaukat Aziz was not the prime minister who also headed the Pakistan Hockey Federation.

C. Mir Zafarullah Khan Jamali, a former prime minister, also served as President of the Pakistan Hockey Federation.

D. Nawaz Sharif was not the prime minister who also headed the Pakistan Hockey Federation.

Question 27 English

When soldiers in the military comply with the commands of their superiors they are displaying?

- A. Conformity
- B. Obedience ✓ **Correct answer**
- C. Aggression
- D. Groupthink

A. Conformity is going along with a group, not obeying a superior's commands.

B. Soldiers complying with their superiors' commands are displaying obedience.

C. Aggression is hostile behaviour, not compliance with commands.

D. Groupthink is faulty group decision-making, not compliance with commands.

Question 28 English

Fill in the blan: "Aslam is a senior_____me.

- A. On
- B. To ✓ **Correct answer**

- D. For

A. 'Senior on me' is not correct English.

B. 'Senior to me' is correct: senior takes 'to' ('Aslam is senior to me').

C. 'Senior of me' is not correct English.

D. 'Senior for me' is not correct English.

Question 29 English

Complete the proverb: Don't put your eggs in___?

- A. One basket ✓ **Correct answer**
- B. Fridge
- C. Jar
- D. Pane

A. The proverb is 'Do not put your eggs in one basket'.

B. A fridge is not the word in this proverb.

C. A jar is not the word in this proverb.

D. A pane is not the word in this proverb.

Question 30 English

Find the correct indirect sentence: Majid said,"it may rain tomorrow".

- A. Majid told that it made in tomorrow
- B. Majid suggested it might rain tomorrow
- C. Majid said that it might rain the next day ✓ **Correct answer**
- D. Majid told it might rain the next day

n tomorrow' is garbled and not the correct indirect form.

B. 'Suggested it might rain tomorrow' keeps 'tomorrow' instead of changing it to 'the next day'.

C. 'Majid said that it might rain the next day' is the correct indirect sentence ('may' becomes 'might', 'tomorrow' becomes 'the next day').

D. 'Majid told it might rain the next day' is missing 'that' and the reporting structure.

Question 31 English

Change the narration: He said to me,"keep quiet and listen to me".

- A. He requested me keeping quiet and listening to his words
- B. He told me to keep quite so that I could listen to his words ✓ **Correct answer**
- C. He requested me keeping quiet and listening to his words
- D. He entreated me that I should give quite and listen to his words

A. Option A is a duplicate of option C, and 'requested me keeping quiet' is not correct reported speech; the verb needs 'to keep quiet'.

B. Option B has the correct reported-speech structure: 'told me to keep quiet' (with 'quite' a misprint for 'quiet'), matching the imperative in the direct speech.

C. Option C is a duplicate of option A, so it cannot be a distinct correct answer.

D. Option D, the printed key, is garbled beyond sense: 'give quite' has no meaning here, so it cannot be the correct conversion.

Note: Note: PICK-ONE — the printed key D is wrong: 'He entreated me that I should give quite and listen to his words' is garbled ('give quite' has no meaning); B is the only option with the correct reported-speech structure ('told me to keep quiet', 'quite' a misprint for 'quiet'), and the same stem in built 37sw keys the equivalent 'He ordered me to keep quiet and listen to his words'. Filed as printed. Decided by assistant under owner's 8 Nov 2026

Question 32 Mathematics

280-120-(-320)+50=?

- A. 480
- B. 680
- C. 530 ✓ **Correct answer**
- D. 378

A. 480 is not the value: 280 - 120 - (-320) + 50 = 280 - 120 + 320 + 50.

B. 680 is not the value: 280 - 120 + 320 + 50 = 530.

C. 280 - 120 - (-320) + 50 = 280 - 120 + 320 + 50 = 530.

D. 378 is not the value: 280 - 120 + 320 + 50 = 530.

Question 33 Mathematics

If a man washes 8 cars in 18 minutes how many cars are watched in 3 hours

- A. 50
- B. 60
- C. 70
- D. 80 ✓ **Correct answer**

A. 50 cars is not the count: 8 cars in 18 minutes is 8/18 cars a minute, and 3 hours is 180 minutes.

B. 60 cars is not the count: 180/18 = 10 lots of 8 cars.

C. 70 cars is not the count: 180/18 = 10 lots of 8 cars.

D. In 3 hours (180 minutes) he washes 180/18 x 8 = 80 cars.

34 Mathematics

Find interest on Rs.40,000 at the rate of 3% annuallyfor 4 years investment:

- A. Rs.5000
- B. Rs 4700
- C. Rs.4800 ✓ **Correct answer**
- D. Rs.4900

A. Rs. 5,000 is not the interest: 40,000 x 3% x 4 years.

B. Rs. 4,700 is not the interest: 40,000 x 3/100 x 4 = 4,800.

C. Simple interest = 40,000 x 3/100 x 4 = Rs. 4,800.

D. Rs. 4,900 is not the interest: 40,000 x 3/100 x 4 = 4,800.

Question 35 Islamiat

Where was the first Wahi revealed?

- A. Cave of Hira ✓ **Correct answer**
- B. Cave of Safa
- C. Cave of Marwa
- D. Cave of Soar

A. The first Wahi (revelation) was revealed in the Cave of Hira.

B. The Cave of Safa is not where the first Wahi was revealed.

C. The Cave of Marwa is not where the first Wahi was revealed.

D. The Cave of Soar (Thawr) is where the Prophet hid during the Hijrah, not where the first Wahi was revealed.

36 Islamiat

In which year did the tragedy of Karbala take place?

- A. 55 Hijrah
- B. 61 Hijrah ✓ **Correct answer**
- C. 63 Hijrah
- D. 65 Hijrah

A. The tragedy of Karbala did not take place in 55 Hijrah.

B. The tragedy of Karbala took place in 61 Hijrah (10 Muharram 61 AH).

C. The tragedy of Karbala did not take place in 63 Hijrah.

D. The tragedy of Karbala did not take place in 65 Hijrah.

Question 37 Urdu

ضرب المثل مکمل کریں کیا کابل میں گدھے

A. ہوتے ہیں

Correct answer ✓ B. نہیں ہوتے

C. کبھی کبھار ہوتے ہیں

D. اکثر ہوتے ہیں

A. 'کیا کابل میں گدھے ...' does not complete the proverb ہوتے ہیں.

B. The proverb completes as 'کیا کابل میں گدھے نہیں ہوتے' (?do donkeys not exist in Kabul).

C. کبھی کبھار ہوتے ہیں does not complete the proverb.

D. اکثر ہوتے ہیں does not complete the proverb.

38 Urdu

عجز کا کیا مطلب ہے؟

A. جرات

B. طاقت

Correct answer ✓ C. کمزوری

D. ہمت

A. عجز means helplessness, not جرات (courage).

B. عجز means helplessness, not طاقت (strength).

C. عجز means کمزوری (weakness, helplessness).

D. عجز means helplessness, not ہمت (courage).

Question 39 Urdu

"مرثیہ" کس زبان کا لفظ ہے

A. ترکی

B. فارسی

Correct answer ✓ C. عربی

D. ہندی

A. مرثیہ is not a Turkish word.

B. مرثیہ is not a Persian word.

C. مرثیہ is an Arabic word.

i word مرثیہ .D

Question 40 Urdu

مشہور ناول "راجہ گدھ" کی مصنفہ کون ہے

A. خدیجہ مستور

Correct answer ✓ B. بانو قدسیہ

C. الطاف فاطمہ

D. بشرا رحمان

A. خدیجہ مستور did not write 'راجہ گدھ'.

B. بانو قدسیہ wrote the famous novel 'راجہ گدھ'.

C. الطاف فاطمہ did not write 'راجہ گدھ'.

D. بشرا رحمان did not write 'راجہ گدھ'.

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