1. What is Power BI, and what are its three main components?

EN:
Power BI is a business analytics tool by Microsoft that helps users visualize data, create reports, and share insights. Its three main components are:

1. **Power BI Desktop** – for creating reports.
2. **Power BI Service** – for publishing, sharing, and collaboration online.
3. **Power BI Mobile** – for accessing reports on mobile devices.

UZ:
Power BI — Microsoftning biznes tahlili vositasi bo'lib, u ma'lumotlarni vizuallashtirish, hisobotlar yaratish va ulashishga yordam beradi. Uning uchta asosiy komponenti:

1. **Power BI Desktop** – hisobot yaratish uchun.
2. **Power BI Service** – hisobotlarni yuklash, baham ko'rish va hamkorlik qilish uchun.
3. **Power BI Mobile** – mobil qurilmalarda hisobotlarni ko'rish uchun.

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2. Name two business use cases for Power BI dashboards.

EN:

1. Sales performance tracking
2. Financial reporting and forecasting

UZ:

1. Savdo ko'rsatkichlarini kuzatish
2. Moliyaviy hisobot va prognoz qilish

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3. How do you download and install Power BI Desktop?

EN:
You can download Power BI Desktop from the Microsoft Store or from Microsoft's official website (powerbi.microsoft.com). Install it by opening the setup file and following the installation steps.

UZ:
Power BI Desktop-ni Microsoft Store'dan yoki rasmiy Microsoft saytida

(powerbi.microsoft.com) yuklab olasiz. O'rnatish faylini ishga tushirib, ko'rsatmalarga amal qilib o'rnatiladi.

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4. What is the difference between Power BI Desktop and Power BI Service?

EN:
Power BI Desktop is used for building reports, while Power BI Service is used for publishing, sharing, and viewing reports online.

UZ:
Power BI Desktop — hisobot yaratish uchun;
Power BI Service — hisobotlarni onlayn yuklash, ulashish va ko'rish uchun.

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5. What file extension does a Power BI project use?

EN:
A Power BI project uses the **.pbix** file extension.

UZ:
Power BI loyihasi **.pbix** kengaytmali fayldan foydalanadi.

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6. Explain the role of Power Query in Power BI.

EN:
Power Query is used for data transformation—cleaning, filtering, merging, and shaping data before building visualizations.

UZ:
Power Query ma'lumotlarni tozalash, filtrlash, birlashtirish va shakllantirish uchun ishlatiladi, ya'ni vizualizatsiya oldidan ma'lumotlarni tayyorlaydi.

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7. Why would a business prefer Power BI over Excel for reporting?

EN:
Power BI offers better visualizations, automation, real-time dashboards, and easier data refresh compared to Excel.

UZ:
Power BI Excelga nisbatan yanada chiroyli grafiklar, avtomatlashtirilgan hisobotlar, real-time dashboardlar va ma'lumotni oson yangilash imkonini beradi.

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8. Describe one limitation of the free version of Power BI.

EN:
You cannot share dashboards with others using the free version.

UZ:
Bepul versiyada dashboardlarni boshqa odamlarga ulashib bo'lmaydi.

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9. What is a "published report" in Power BI Service?

EN:
A published report is a report created in Power BI Desktop and uploaded to Power BI Service for viewing and sharing.

UZ:
Published report — Power BI Desktopda yaratilgan va Power BI Service'ga yuklangan hisobot bo'lib, uni ko'rish va ulashish mumkin.

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10. How does Power BI Mobile enhance accessibility?

EN:
It allows users to view dashboards and reports on the go using smartphones or tablets.

UZ:
Smartfon yoki planshet orqali hisobotlarni istalgan joydan ko'rish imkonini beradi.

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11. Compare Power BI with Tableau — pros and cons.

EN:
Power BI Pros: Cheaper, easier to learn, integrates with Microsoft tools.
Power BI Cons: Limited advanced visuals compared to Tableau.

Tableau Pros: More powerful visualizations and analytics.
Tableau Cons: Expensive and harder to learn.

UZ:
Power BI afzalliklari: Arzon, oson o'rganiladi, Microsoft xizmatlari bilan yaxshi integratsiya.
Kamchiliklari: Tableau'ga nisbatan kichikroq vizual imkoniyatlar.

Tableau afzalliklari: Kuchli vizualizatsiya va tahlil imkoniyatlari.
Kamchiliklari: Qimmat va o'rganish qiyin.

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12. Explain how Power BI integrates with Azure services.

EN:
Power BI integrates with Azure SQL, Azure Synapse, Azure Data Lake, and Azure Machine Learning for seamless data analysis.

UZ:
Power BI Azure SQL, Azure Synapse, Azure Data Lake va Azure Machine Learning bilan integratsiya bo'lib, ma'lumotlarni qulay tahlil qilishni ta'minlaydi.

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13. What are "gateways" in Power BI, and when are they needed?

EN:
Gateways connect on-premise data sources (local databases/files) to Power BI Service for scheduled refresh.

UZ:
Gatewaylar — lokal (kompyuter yoki serverdagi) ma'lumotlar bazalarini Power BI Service bilan bog'lab, avtomatik yangilanish imkonini beradi.

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14. How would you convince a company to adopt Power BI? (ROI argument)

EN:
Power BI reduces reporting time, automates data refresh, improves decision-making, and saves money by eliminating manual reporting.

UZ:
Power BI hisobot tayyorlash vaqtini qisqartiradi, ma'lumotlarni avtomatik yangilaydi, qaror qabul qilishni yaxshilaydi va qo'lda hisobot qilish xarajatlarini kamaytiradi — bu ROI ni oshiradi.

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15. What security features does Power BI offer for sensitive data?

EN:
Power BI provides data encryption, row-level security (RLS), access control, and compliance with enterprise security standards.

UZ:
Power BI ma'lumotlarni shifrlash, satr darajasida xavfsizlik (RLS), kirishni boshqarish va xavfsizlik standartlariga moslikni ta'minlaydi.