



Cambridge International Examinations
Cambridge Ordinary Level

PAKISTAN STUDIES

2059/02

Paper 2 Environment of Pakistan

May/June 2016

MARK SCHEME

Maximum Mark: 75

Published

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1 (a) Study Fig. 1 which is a map of northern Pakistan.

(i) On the map name the following: Mountain range A; City B; River C [3]

A: Himalaya(s)

B: Murree

C: Jhelum

(ii) Explain the causes of high rainfall at city B. [4]

Receives rainfall in all seasons /throughout year

Monsoon (from Bay of Bengal) (via N India)

Western depressions (from Mediterranean) (from Afghanistan/Iran)

Relief rainfall (air rises over mountains and cools/condenses)

Thunderstorm / convection / convectional rain/currents (hot air rises [in summer] and cools)

(b) (i) What is meant by the term 'population density'? [1]

The [average] amount/number of people per unit area/km²/mile²/acre/ha accept: m²/per square unit

(ii) Which province in Pakistan has the highest population density? [1]

Punjab

(iii) Explain the physical factors that cause areas such as the province you named in (ii) to have a high population density. [4]

Plains/doabs/flat land for ease of/suitable for building/communication routes/agriculture

Alluvial terraces/flood plains producing fertile soil

Moderate temperature/climate not too extreme/monsoon rainfall giving tolerable living conditions

High annual rainfall leading to higher agricultural yields

Rivers/Indus/tributaries/named tributary for water supply [for industry]/irrigation/flooding land/fishing/transport

Fertile soils which allow cultivation of crops

(c) Study Fig. 2 (Insert) which shows two population pyramids for Pakistan.

(i) What information is displayed in a population pyramid? [2]

Amount/proportion/percentage of population in certain age groups / distribution of various age groups in a population / age structure of the population

In 5-year age groups

[Compares] male and female [shown separately]

(ii) Identify two ways in which Pakistan's population structure is forecast to change between 2014 and 2040. [2]

Fewer children/young dependents / fewer of specified age in range 0–14

Fewer 15–19

More working population / more of specified age in range 25–59/64

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More elderly/old dependents/more of specified age in range 60+/65+
(If no other answer accept) ageing population

(iii) Give one possible reason for each change identified in part (ii). [2]

Lower birth rates/parents having fewer children/smaller family size
 Marrying later / women in education/working/empowered
 Higher use of/introduction of contraception/family planning
 Education/awareness about contraception/family planning/healthcare/diet/hygiene
 Over the period the larger bars move up the pyramid
 Greater in-migration/more refugees in working age group
 Longer life expectancy/higher standard of living/lower death rates/lower infant mortality rates
 Improved healthcare/vaccinations / more/better qualified doctors
 Improved hygiene/diet/nutrition/food supply

(d) Read the following two views about overpopulation in Pakistan.

A

The problems caused by overpopulation can only be solved by increasing resources such as food, housing, and essential services.

B

The needs of the people can only be met if population growth can be controlled.

Which view do you agree with more? Give reasons to support your answer and refer to places or examples you have studied. [6]

L3	5–6 marks	6 – Developed points explaining both views. Evaluation gives clear support to one view. At least one reference to an appropriate place or example 5 – Developed points explaining both views. Evaluation gives clear support to one view
L2	3–4 marks	4 – Developed point(s) explaining or both views. No evaluation 3 – Developed point(s) explaining one view
L1	1–2 marks	2 – Simple point(s) addressing both views 1 – Simple point(s) addressing one view 0 – No valid response

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Indicative content (developed points in parentheses)

Increasing resources

For

Reclaiming land for agriculture (deserts/waterlogged and saline areas)

Green revolution/modern methods in agriculture (increase yields)

Government schemes to improve services (electricity/sanitation/house building/improvement/shanty housing redevelopment)

Against

Pakistan is a developing country with few resources/resources not exploited (government cannot afford/in debt/trade/BoP deficit)

Controlling population

For

Family planning/birth control clinics (free /education about contraceptives)

Education for women (likely to marry later/work/have fewer children)

Against

Natural increase/birth rate still high (policies to reduce them still not working)

Factors are present preventing lower birth rate (religious/tribal opposition to family planning/women's education)

Tradition for large families (children as workers/security/status)

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2 (a) (i) Suggest one reason why farming is more productive on flat land.

Ease of ploughing/sowing/harvesting/cultivation/use of farm machinery
 Water is retained
 Easier/possible to irrigate
 Soil not washed away
 Terracing not necessary

(ii) Many processes are involved in rice cultivation. In the boxes below, place the following processes in the order in which they occur. [2]

2 Sowing
 3 Flooding
 4 Transplanting
 5 Draining

(iii) Explain how one of the processes you named in part (ii) is carried out on a small-scale subsistence farm. [3]

Manual labour
 Family workers/farmer himself
 Draught animals/bullocks
 Limited use of machinery/simple tools/shaduf/Persian Wheel/unlined canals
 Specific factors Max 2 Factors for ploughing/harvesting = 0
 Sowing into beds/nurseries
 Bunds/terraces constructed in main fields
 Water diverted from rivers/unlined canals
 Main fields flooded to 30–37cm/ 12–14"
 Transplanted into prepared/weeded fields
 When 20–25cm/ 8–10" high
 Bunds breached [to drain fields]
 Lowest terrace breached/drained first

(iv) Describe the natural factors for producing the highest yields of rice. [3]

High/heavy/ample/abundant/plentiful rainfall/ 1270+mm
 Dry for harvest
 Warm temperature / 20–35C / no cold season
 Level/flat land
 Loam/clay soil / impervious sub-soil / water retentive

(b) Study Fig. 3 (Insert) which gives information about the Gross Domestic Product (GDP) of Pakistan for 2014 by sector.

(i) State what might be in categories A and B in Fig. 3. [2]

A: Livestock/named livestock
 B: Services /named service/named employment in service industry

(ii) For one sector in Fig. 3 explain how its contribution to GDP could be increased. [2]

Primary
 Improve irrigation to increase area under crops

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Develop further modern methods of agriculture e.g.
 mechanisation/fertilisers/pesticides/HYVs
 Land reforms/consolidation
 Government schemes e.g. plant protection programmes/credit/loans to buy farm machinery
 More agricultural training college to increase skills
 [Foreign] Investment in livestock facilities/husbandry
 [Foreign] investment in exploration/extraction of natural resources
 Afforestation projects
 Modernisation of fishing fleet

Secondary

Expand Industrial Estates/Special Industrial Zones
 Government organisations to promote small scale/cottage industries/loans to small industry owners/technical service/development centres
 Attract foreign/private investment for business start-ups
 Promote training courses in business/technology
 Introduce hi-tech/modern machinery
 Higher quality control of finished goods

Tertiary

Improve security to attract tourists
 Develop telecommunication network
 More publicity/marketing
 Government organisations to promote tourism/call centres
 Improved IT/business skills training
 Setting up schools/colleges/education/training centres/hospitals

(c) Study Fig. 4 which gives information about the yields of three crops grown in Khyber Pakhtunkhwa (KPK)

- (i) A: Which crop had the lowest yield in KPK on average over the years 2006–10?**
B: In 2011 what was the difference in maize yield between KPK and Pakistan? [2]

A: Wheat

B: 2050 kg/ha / accept 1950–2150 kg/ha

- (ii) Using Fig. 4 and your own knowledge explain the problems for agriculture in (KPK) province. [4]**

KPK yields [always] less than for Pakistan [as a whole]/rest of Pakistan/other provinces
 Too cold in winter [for growth]/severe weather in winter/frost damage
 Too hilly/mountainous/terrain too rugged [for large fields]/barren/thin/infertile soils/prone to soil erosion (farm processes less efficient)
 Terracing needed (high cost and much labour for construction/maintenance)
 Irrigation difficult/few rivers
 Remote from large centres of population/markets (making commercial farming difficult)
 Poor infrastructure for transport of farm goods (kacha roads/passes blocked by landslides)
 Terrorism/insurgencies
 Lack of government interest (preventing access to modern techniques in agriculture)

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(d) Read the following article:

The Lowari Tunnel is due to open in 2017. It is 8.6km long and will give Chitral Valley its only all-weather road to the rest of Pakistan.

For some in Chitral Valley this tunnel will be of real benefit but for others it will create problems.

To what extent does the Lowari Tunnel benefit or create problems for the local people and economy of Chitral? Give reasons for your answer. [6]

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L2	3–4 marks	4 – <i>Two developed statements about either aspect (benefits AND/OR problems). No evaluation</i> 3 – <i>One developed statement about one aspect (benefits OR problems)</i>
L1	1–2 marks	2 – <i>Two simple statements about either aspect (benefits AND/OR problems)</i> 1 – <i>One simple statement about one aspect (benefits OR problems)</i> 0 – <i>No valid response</i>

Indicative content (developed points in parentheses)

Benefits

Chitral valley no longer cut off from the rest of Pakistan for 6 months per year.
 Access by road in winter when Lowari Pass closed by snow
 Avoids travelling into Afghanistan and back into Pakistan (the only natural winter route)(this route not available since 2009 due to presence of militants)
 Shortens duration of journey to Peshawar by half (7 hours instead of 14 hours)
 Greater access to hospital/university/airports (in Peshawar and Islamabad)
 Greater access for trade
 Greater access for tourists/higher income from tourism
 Allows greater provision of services/food in winter
 Stimulates industrial development/employment

Problem

Too many visitors (commercialisation of culture)
 Young/ males likely to migrate (seasonally to urban areas)
 Maintenance cost
 Ease of movement for terrorists / a terrorist target
 Increase in air pollution from exhaust fumes (which creates breathing difficulties)

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Opens area to competition in foreign goods
Loss of scenic beauty
Ongoing debt (increasing local taxation)

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3 (a) Study Fig. 5 which gives information about employment in Pakistan by sector.

- (i) **A State the proportion of primary sector employment in 1973.**
B By how much has secondary employment increased between 1973 and 2013? [2]

A: 58% Accept 57–59%

B: 6% Accept 5–7%

- (ii) **Suggest reasons for the change in tertiary employment shown in Fig. 5. [3]**

Improved education/training leading to higher numbers entering e.g.
trade/finance/insurance

Larger population requiring more health services/education
services/government/administration

More informal sector services /named informal sector employment e.g. tailors/
cobblers/maids/ drivers/guards

New named infrastructure e.g. hotels/airports resulting in more named tertiary jobs

Is higher paid/perceived to be higher paid

Better working conditions in offices/air conditioning

More foreign investment in banking/insurance

- (b) (i) **What are the causes of unemployment and underemployment in urban areas? [3]**

Population increasing rapidly/overpopulation

Increasing numbers of rural to urban/internal migrants/refugees

Mechanisation replacing workers [in factories/IT/computer use]

Lack of education/skills

Discrimination/corruption

Loadshedding/temporary layoffs

Political instability

Slow economic growth/weak economy

Definition of underemployment: people work less than full time although would prefer to
work longer hours/ people who accept jobs that do not utilise their skills.

- (ii) **Suggest two reasons why unemployment is difficult to measure in countries such
as Pakistan. [2]**

Disguised unemployment/more people employed than are needed

Large informal sector/workers not registered

Home workers/cottage industries

Self-employment

Unpaid e.g. domestic helps

Workers are mobile/high internal movement of labour/ fluid labour market/ seasonal
labour/part-time labour

Inaccurate data collection/problems in collecting data e.g. in tribal areas

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- (c) (i) Study Fig. 6 which shows the distribution in Pakistan of selected cottage industries and the engineering industry.

A: Give an example of a cottage industry. [1]

One of: furniture / pottery / woodwork / metalwork / jewellery / hand woven rugs/carpets/shawls / handicrafts / embroidery/sewing / hand-made leather goods/shoes / candles

B: Compare the distribution of cottage industries and engineering as shown in Fig 6. [3]

Similar

Both in all four provinces / spread throughout provinces

Both concentrated in Punjab

Both present in Karachi/Hyderabad/Lahore/Gujrat

Both have two locations in Sindh/one location in Balochistan/one in KPK/equal in number in S/B/KPK

Different

Cottage has more locations in Punjab/use of stats to exemplify e.g. cottage 7 locations in Punjab whereas engineering 5 locations

Cottage present only in

Quetta/Peshawar/Rawalpindi/Chiniot/Multan/DGK/Bahawalpur/S Punjab

Engineering present only in Hab/Faisalabad/Gujranwala/Taxila/Risalpur

Engineering more clustered / cottage more spread out

- (ii) For the products of either cottage industry or engineering industry, identify your chosen industry and circle a suitable method of transport. [1]

Cottage industry: accept air/road

Engineering: accept ship/road/rail

- (iii) Suggest one advantage of using this method of transport for your selected industry. [1]

Air – for export / small/light/low volume/high value goods

Ship – for export / large/heavy/bulky goods / containers

Rail – for large/heavy/bulky goods / containers / long distances

Road – extensive/dense network / door-to-door / short distances

- (iv) Explain what is meant by the term 'small-scale industry'? [3]

Assets limited / capital limited / capital <Rs 10mn

Family workers / small number hired workers / workforce <10

Worked carried out outside the home / in factory / in workshop

Example: sports goods/surgical instruments/carpets/electric fans/cutlery/toys/agricultural implements

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- (d) Read the following two views about possibilities for industrial development in Pakistan.

A

It is better for Pakistan to promote large-scale industries which provide more goods for domestic use and for other industries.

B

It is better for Pakistan to promote small-scale and cottage industries in rural areas.

Which view do you agree with more? Give reasons to support your answer and refer to places or examples you have studied. [6]

L3	5–6 marks	6 – <i>Developed points explaining both views. Evaluation gives clear support to one view. At least one reference to an appropriate place or example</i> 5 – <i>Developed points explaining both views. Evaluation gives clear support to one view</i>
L2	3–4 marks	4 – <i>Developed point(s) explaining or both views. No evaluation</i> 3 – <i>Developed point(s) explaining one view</i>
L1	1–2 marks	2 – <i>Simple point(s) addressing both views</i> 1 – <i>Simple point(s) addressing one view</i> 0 – <i>No valid response</i>

Indicative content (developed points in parentheses)

Large scale

For

Reduces need for expensive imports of finished goods (e.g. vehicles)
 Export potential
 Fulfills domestic demand (e.g. galvanised steel in construction)
 Greater contribution to GDP
 Encourages private sector to invest (e.g. Pindi Bhattian)
 New industries would encourage large scale employment

Against

Expensive to set up (foreign investment/loans/debt)
 May require expensive imports of raw materials (e.g. coking coal/iron ore for steel industry)
 Changes of government/political instability (large projects may be delayed/cancelled)
 Employs relatively fewer people (approx. 20% industrial workforce/very few women)
 Noise/air/ water pollution
 Causes deforestation (which destroys habitats)(loss of scenic beauty)

Small scale and cottage

For

Important source of income in rural areas

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Money is re-invested locally
 High demand (both domestic and exports / 30% manufacturing exports by value)
 Employment possibilities (employs approx. 80% industrial workforce)
 Conducted in homes (women can work)
 Reduces rural to urban migration
 Recycles industrial waste (e.g. of cotton/steel industries)
 Small input requirement/uses local raw materials (e.g. leather/wood)(promotes primary industries)(limited need for imports)
 Low cost

Against

Only small (5%) contribution to GDP
 Limited profit/wholesalers take most of the profit
 Limited ability to expand
 High production costs (since no economies of scale)
 Lack of electricity in rural areas

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4 (a) (i) Study Fig. 7 which is a diagram of an HEP (Hydel) power station.

A: On the diagram place an arrow or arrows to indicate the direction of movement of water through the power station.

B: Choose two terms from the list below and use them to label the diagram in two of the spaces provided. [3]

A: Arrow(s) drawn downwards through channel

B: From L to R: reservoir dam turbine outflow

NB: 'water intake' top left space not used

(ii) **Name one multi-purpose dam in Pakistan.** [1]

Tarbela/Mangla/Warsak

(iii) **Give two uses for a dam such as the one you named in (ii).** [2]

HEP/electricity [generation]

Irrigation

Water supply / stores water [for industrial/domestic use]

Controlling floods

Recreation/named recreational use/tourist attraction

Fishing

(b) (i) **Study Photograph A (Insert). Identify the type of forest vegetation shown in the photograph.** [1]

Subtropical dry / subtropical scrub / dry thorn scrub / subtropical thorn

(ii) **Study Fig. 8 which gives information about different types of forested area in Pakistan. Describe one main change in forested area over the period shown.** [1]

Overall decreased

Natural forest decreased

Plantations increased

Other woodland increased

(iii) **State the main difference between natural forest and plantations.** [1]

Natural forests are not planted by man: plantations are planted by man/man-made

Natural forests have greater variety of species/greater biodiversity

(iv) **In 2014 about 4.2% of the land area of Pakistan was covered in forest. Explain why more forests need to be planted in the Indus Plain.** [5]

Pakistan has one of the lowest proportions of its total area under forest in the world

To meet a target for % total area covered in forest (20–25%)

To replace trees cut down / to meet the needs of future generations from forests

For firewood (thereby conserving natural forest)

For commercial use/timber/wood-based industries (using timber as a raw material e.g. furniture making) /fruit trees/medicines

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To prevent siltation in rivers/canals, to decrease surface runoff, to prevent soil erosion/landslides (preserves top layer of fertile soil for agriculture) /landslides, to increase rainfall

To create habitat (to conserve animals/wildlife)/to create scenic beauty (to boost tourism)/to create shade/cooler temperatures

To purify air/produce O₂/to absorb CO₂ (which will help prevent global warming)

To prevent/control flooding

- (c) (i) Name two fishing ports on the Makran Coast. [2]

Any two of Jiwani, Gwadar, Pasni, Ormara, Sonmiani

- (ii) Describe the methods used in commercial marine fishing. [3]

Trawl/gill nets

Mechanised boats /trawlers /gill-netters

Satellite navigation/use of radio for weather conditions/sonar/'fish finders'

Storage/refrigeration facilities on boat

Up to 60km from the coast

Remain at sea 5–15 days/'weeks'

Throughout the year/10 months or more per year

- (d) To what extent is it possible for marine fishing to be developed sustainably in Pakistan? Give reasons to support your answer. [6]

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L2	3–4 marks	4 – <i>Two developed statements about either aspect (possible AND/OR not possible). No evaluation</i> 3 – <i>One developed statement about one aspect (possible OR Not possible)</i>
L1	1–2 marks	2 – <i>Two simple statements about either aspect (possible AND/OR Not possible)</i> 1 – <i>One simple statement about one aspect (possible OR not possible)</i> 0 – <i>No valid response</i>

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Indicative content (developed points in parentheses)

Possible

By avoiding overfishing
 By having quotas/government licences
 Secure fishing grounds from foreign fishing boats/fines/policing
 Limit number of months in year able to fish (to allow breeding)
 Only catch adult fish (by using nets with larger mesh)
 Laws to protect of mangrove forests
 Laws/fines to prevent marine pollution/oil spills
 Education in sustainable methods

Not possible

Mangrove forests are being cleared (reducing breeding/feeding areas for fish/shrimps)
 Sea pollution (oil from ships/industrial/domestic waste from Karachi)(poisoning fish and spreading into food chain)
 Not enough capital/investment
 Lack of skills/training in sustainable methods
 Lack of political interest/will (fishing only makes up about 0.5% of GDP)

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5 (a) Study Fig. 9 which is a map of southern Pakistan.

(i) On the map name the following: Line of longitude A; River B; City C [3]

A: – 64E
B: – Dasht
C: – Karachi

(ii) Explain the advantages of locating an industrial estate at D. [4]

General

Provides employment
Industrial linkages
Supply of raw materials
To make use of government incentives

Specific

Good road connection
Makran Coast Highway
Close to airport at Karachi
Close to Karachi/Port Qasim for exports/imported raw materials/ trade in semi-finished goods
Economic growth/diversification/develops industries in undeveloped area/province/Balochistan
Near thermal/nuclear power station/on electricity grid
Close to large domestic market in Karachi
Large labour force available from Karachi

(b) (i) What are Export Processing Zones (EPZs)? [1]

Areas which have government support/are joint ventures with foreign investors/attract foreign capital for export-orientated manufacturing/assembling industries

(ii) Describe the features of an EPZ. [3]

Industrial estates
Named e.g. Port Qasim/ Sialkot/ Faisalabad/ Gujranwala/ Risalpur/ Saindak/ Duddar/ Gwadar/ Karachi
Exemption of duties on imported raw materials/machinery
Tax holidays/exemptions/subsidies
Export quality control
Provision of named infrastructure e.g. telephone/electricity/water/gas/roads Max 1
Provided with security
Attracts hi-tech development

(c) Study Fig. 10 which gives information about the number of internet users and telephone lines in Pakistan.

(i) How many more people were using the internet in 2012 than in 2007? [1]

29 000 Allow 28 500–29 000

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- (ii) **A: Describe one difference between the number of internet users and the number of telephone lines over the period 2007 to 2012.**

B: Suggest one reason for the change in the number of telephone lines over the same period.

[2]

A: Internet use increases: telephone lines decreases
Internet use higher than telephone lines

B: An increase in mobile/cellular phone use/social media/Skype/WhatsApp/Snapchat/Instagram/ Facebook/Twitter/GooglePlus

- (iii) **What problems might there be in extending Information Technology (IT) throughout Pakistan?**

[5]

Lack of electricity in remote areas
Lack of signal in remote areas / many people live in remote areas
Lack of media infrastructure e.g. masts/WiFi/telephone lines/cables
IT illiteracy
Lack of IT professionals
Frequent electrical/technical faults/breakdowns/loadshedding/damage from natural disasters
Decreases employment/number of office workers
Resistance from older generations/traditional/tribal societies
Real or perceived threat of Internet on cultures/belief systems
Risk of cyber attack
Capital intensive / high initial cost /lack of government finance / high cost of [frequent] replacement
Technology has to be imported / expensive imports of technology / negative effect on balance of payments of import of technology
Population cannot afford bills/equipment

- (d) **Read the following two views about reducing the high unemployment rate in Pakistan.**

A

Unemployment levels are best reduced by increasing training opportunities in agriculture and other primary sector jobs.

B

Unemployment is more likely to be reduced by providing education in skills for the manufacturing and service industries.

Which view do you agree with more? Give reasons to support your answer and refer to examples you have studied.

[6]

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L1	1–2 marks	2 – <i>Simple point(s) addressing both views</i> 1 – <i>Simple point(s) addressing one view</i> 0 – <i>No valid response</i>

Indicative content (development of points in parentheses)

Primary Industry

For

Pakistan is an agrarian economy (50–55% export earnings are in textile group)
 Agriculture already employs large (40–45% of) workforce/ already high proportion (20–25%) of GDP
 Model farms (giving practical demonstrations)
 Workshops/technical training for repair/maintenance of agricultural machinery
 Many mineral deposits not explored/potential in mining sector

Against

Rural unemployment is relatively low (4–5%) (half as high as urban)
 Mechanisation in agriculture is displacing labour
 Agricultural land going out of use (due to waterlogging and salinity, overuse, natural disasters, climate change, restrictive practices of landlords, plant diseases, rural-urban migration)
 Agricultural products are not value-added/low value-added/not profitable
 Agriculture does not generate much wealth (therefore less likely to attract new workers)
 Very low proportion of land area under forestry
 Fishing/mining very undeveloped

Manufacturing and Service Industry

For

Great potential in rural areas for opportunities in cottage industries
 Urban unemployment is high (where most manufacturing industries/services are located) (8–9%)(twice as high as rural)
 Tertiary sector already employs large (about 35% of) workforce
 Higher profit/salary in sectors of economy requiring skills

Against

Manual work in manufacturing is reducing due to use of computers/automation
 Increasing competition in global market for manufactured goods/products from Pakistan uncompetitive