EXAM-DAY · 90-MIN REVISION CARD

Geomorphic Processes

Print this · Fold it · Carry to the exam-hall gate · Revise once · Then walk in.

FORMULAS & KEY RESULTS

ENDOGENIC = energy from EARTH'S INTERIOR (radioactivity + primordial heat) → BUILDS relief

EXOGENIC = energy from SUN + GRAVITY → WEARS DOWN relief

DIASTROPHISM = orogenic (horizontal, mountain-building) + epeirogenic (vertical, continent-warping) + plate tectonics + faulting + folding

VOLCANISM = intrusive (batholith, laccolith, sill, dyke) + extrusive (lava, ash, gases)

WEATHERING = in-situ breakdown, NO transport. Three families: PHYSICAL, CHEMICAL, BIOLOGICAL

PHYSICAL: frost action + thermal expansion + salt weathering

CHEMICAL: solution + carbonation + hydration + oxidation + reduction

BIOLOGICAL: roots + lichens + burrowing animals

MASS MOVEMENT (by speed): CREEP (slowest) → FLOW (mudflow, solifluction) → SLIDE (landslide, slump)

EROSION agents: running water + glaciers + wind + waves

PEDOGENESIS factors (in order): PARENT MATERIAL → TOPOGRAPHY → CLIMATE → BIOLOGICAL ACTIVITY → TIME

RELATION: weathering supplies → mass movement + erosion transport → deposition lays down

TOP 5 PYQ PATTERNS

1 Distinguish endogenic vs exogenic processes (with examples)
3 marks · 85% of years
Energy source first, direction of effect second, one example pair third — that is the 3-mark structure.

2 Explain three types of weathering with examples
5 marks · 95% of years
NUMBER the three families. Inside each, name THREE named sub-processes with one Indian/world example each. Close with synergy line.

3 Describe the three types of mass movement
3 marks · 70% of years
Classify by SPEED: creep → flow → slide. One example each (Kedarnath slide is the canonical recent one). Triggers in closing line.

4 Describe the factors controlling soil formation
5 marks · 80% of years
List FIVE in the canonical order — parent material, topography, climate, biological activity, time. One line each + Deccan black cotton example to tie up.

5 Differentiate weathering, mass movement and erosion
3 marks · 60% of years
Define each in ONE crisp line, then a worked hillside example showing all three in sequence.

90-MIN REVISION FLOW

0-10 min
Skim the tree diagram — endogenic vs exogenic, the two sub-branches of each. Lock the energy source rule.

10-30 min
Weathering — write out the three families with three named sub-processes inside each. Add one example per sub-process from memory.

30-45 min
Mass movement — list creep / flow / slide by speed; one example each. Triggers: rain, earthquake, undercutting.

45-60 min
Soil formation — recite the five factors in order; write the Deccan example tying them together.

60-75 min
Diastrophism + volcanism — orogenic vs epeirogenic, intrusive vs extrusive landforms.

75-90 min
Quick-attempt the 15 drill MCQs; re-read explanations for any you missed; spot-check the misconceptions list.

Confidence, not anxiety. You've practised this all year. Trust your steps. Don't change strategy on exam morning.
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