Q) How far do you agree that behaviour of Indian monsoon has been changing due to humanising landscapes. Discuss.

Indian Monsoon
- what - Seasonal reversal of wind
- effect - Rain over India & nearby area
- Why - Due to temperature difference between land and sea
- Impact - Monsoon is the lifeline of India. From agriculture to drinking water needs are dependent on Monsoon.

Humanising Activity
- What - It is the modification of environment to make it suitable to human requirement.
- Ex → Roads, dams construction, Urbanisation deforestation.

Relation → Since monsoon is basically dependent on temperature difference between land and sea and humanising activities raise land temperature hence it is having a direct effect on the monsoon.

Studies and evidences:

① Massachusetts Institute of technology study of 2017 found that India received more rain in 2002 - 2017 period than average of last fifty years preceding that they have cited raised land temperature for that.

② Madhav Gadgil committee too warned about sustainable use of forest area since it has an effect on monsoon. though recommendations were not accepted.

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Is there any other factor → Yes

In addition to humanising factor :-

① El nino & El nina effect
② Changes in sea current and long term atmospheric temperature changes.
③ Reversal of magnetic pole.

Verdict : though both humanising & natural factor have influence over monsoon yet former have direct and more prominent impact on the short term. And the later one is a very slow change over which we have little control.

Initiative taken to tackle

① Reduce fossil fuel consumption : FAME II, Renewable energy development, UJWALA schemes etc.
② Forest preservation : strong forest laws
③ Awareness : sustainable practices are promoted, ban on single use plastic.

Conclusion

Although there are multiple factors affecting monsoon yet we should give our focus to the factor which are in our control to give this gift to next generation as we have received it

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