

1. Block Soils are Black in color and also known as Regur Soils. Consider the following statements regarding black soils

1. As these soils are best for Cotton Cultivation, they are also known as Black Cotton Soil
2. They are well-known for their capacity to hold moisture
3. They are rich in soil nutrients, such as calcium carbonate, magnesium, potash and lime
4. These soils are sticky when wet and difficult to work on unless tilled immediately after the first shower or during the pre-monsoon period

Which of the statements given above is/are correct?

- a) 1 and 2 only b) 1 and 3 only
c) 1, 2 and 3 only d) **1, 2, 3 and 4 only**

2. Consider the following statements regarding Alluvial Soils

1. In the coastal regions, the Alluvial soils are formed due to the wave action
2. They are immature and have weak profiles due to their recent origin.
3. The proportion of Potash, phosphoric acid and alkaline are adequate.

Which of the statements given above is/are correct?

- a) 1 and 2 only b) 1 and 3 only
c) **1, 2 and 3** d) 2 and 3 only

3. Consider the following statements

1. Mangroves occur worldwide in the tropics and subtropics, mainly between latitudes 25° N and 25° S
2. The area of mangroves has greater species diversity as it is the junction of terrestrial and marine ecosystems.

Which of the statements given above is/are correct?

- a) 1 only b) 2 only
c) **Both 1 and 2** d) Neither 1 nor 2

4. Consider the following statements regarding Khadar and Bhangar soils

1. Both the Khadar and Bhangar soils contain calcareous concretions (Kankars)
2. The Bhangar is the older alluvium and the Khadar is composed of newer alluvium

Which of the statements given above is/are correct?

- a) 1 only b) 2 only
c) **Both 1 and 2** d) Neither 1 nor 2

5. Which of the following methods helps in Soil Conservation

1. Contour farming
2. Crop rotation
3. Mulching

Which of the statements given above is/are correct?

- a) 1 and 2 only b) 1 and 3 only
c) **1, 2 and 3** d) 2 and 3 only

6. Consider the following statements:

1. Terai is swampy lowland with silty soils.
2. The terai soils are rich in nitrogen and organic matter but are deficient in phosphate.
3. These soils are generally covered by tall grasses and forests but are suitable for a number of crops such as wheat, rice, sugarcane, jute.

Which of the statements given above is/are correct?

- a) 1 only b) 3 only
c) 1 and 2 only d) **1, 2 and 3**

7. Consider the following statements with respect to Aluminium:

1. Aluminium production starts with the raw material bauxite.
2. Three different raw materials are needed to make aluminium – aluminium oxide, electricity and carbon.
3. Aluminium is known for its ductile nature and can be recycled over and over again with 100 percent efficiency.

Which of the statements given above is/are correct?

- a) 2 and 3 only b) 1 and 3 only

- c) 1 and 2 only **d) 1, 2 and 3**
8. Sikkim and Darjeeling Himalayas are best suitable for tea plantations due to –
1. Moderate slope
 2. Thick soil cover with high organic content
 3. Well distributed rainfall throughout the year
 4. Harsh winters.
- Choose the correct answer using the code given below:
- a) 1, 2 and 3 only** b) 2 and 3 only
c) 2, 3 and 4 only d) 1, 2, 3 and 4
9. Which of the following soils found in India are poor in nitrogen, phosphorous and humus?
1. Red and Yellow Soil
 2. Black Soil
 3. Laterite Soil
 4. Peaty Soil
- Select the correct answer using the codes given below:
- a) 1, 2 and 3 only** b) 2, 3 and 4 only
c) 1, 3 and 4 only d) All the above
10. Consider the following about Laterite Soils and select the INCORRECT statement:
- a) They are formed under conditions of high temperature and heavy rainfall with alternate wet and dry periods.
 - b) They are rich in bauxite or ferric oxides.
 - c) They are fertile and suitable for growing plantation crops like tea, coffee, rubber.**
 - d) They are found on the summits of Western Ghats and Eastern Ghats.
11. Consider the following statements regarding ITER (International Thermonuclear Experimental Reactor):
1. ITER is a large-scale scientific experiment intended to prove the viability of fission as an energy source.
 2. India is also one of the partner countries in building this reactor.
- Which of the statements given above is/are NOT CORRECT?
- a) 1 only** b) 2 only
c) Both 1 and 2 d) Neither 1 nor 2
12. Consider the following statements:
1. In Nuclear fission, the nucleus of a heavy atom is bombarded with low-energy neutrons.
 2. Nuclear fission reactions are the source of energy in the Sun.
- Which of the statements given above is/are correct?
- a) 1 only** b) 2 only
c) Both 1 and 2 d) Neither 1 nor 2
13. Consider the following statements:
1. The hydrogen bomb is based on thermonuclear fusion reaction.
 2. A nuclear bomb based on the nuclear fusion of uranium or plutonium is placed at the core of the hydrogen bomb.
- Which of the statements given above is/are correct?
- a) 1 only** b) 2 only
c) Both 1 and 2 d) Neither 1 nor 2
14. Consider the following statements:
1. Uranium ore mined in India are of very low grade as compared to those available in other countries.
 2. Uranium Corporation of India Limited is a Public Sector Enterprise under the Ministry of Mines.
- Which of the statements given above is/are NOT CORRECT?
- a) 1 only** **b) 2 only**
c) Both 1 and 2 d) Neither 1 nor 2
15. Consider the following statements:
1. Nuclear Power Corporation of India Limited (NPCIL) is a Public Sector Enterprise under the administrative control of the Department of Atomic Energy (DAE).

2. NPCIL is responsible for design, construction, commissioning and operation of nuclear power reactors.
Which of the statements given above is/are correct?
a) 1 only b) 2 only
c) **Both 1 and 2** d) Neither 1 nor 2
16. Which of the following is/are the applications of biotechnology:
1. Therapeutics and Diagnostics
2. Genetically modified crops for agriculture
3. Bioremediation and waste treatment
4. Energy production
Choose the correct answers using the codes given below.
a) 1, 2 and 3 only b) 2, 3 and 4 only
c) 1 and 2 only d) **1, 2, 3 and 4**
17. Consider the following statement about induced pluripotent stem cells (iPSC).
1. They are derived from embryonic stem cells.
2. The tissues derived from these iPSC can avoid rejection by the immune system.
Which of the statements given above is/are correct?
a) 1 only b) **2 only**
c) Both 1 and 2 d) Neither 1 nor 2
18. Which of the following reasons make Escherichia coli suitable for gene cloning?
The E. coli genome was the first to be completely sequenced
1. It grows slowly for days and gives a stable condition for observation
2. E. coli is naturally found in the intestinal tracts of humans and animals
Select the correct answer using the code given below:
a) 1 only b) 2 and 3 only
c) **1 and 3 only** d) 1, 2 and 3
19. Consider the following statements with regard to Atomic Energy Regulatory Board (AERB)
1. AERB is engaged in the development of nuclear power technology, applications of radiation technologies in the fields of agriculture, medicine, industry, and basic research.
2. The regulatory authority of AERB is derived from the rules and notifications promulgated under the Atomic Energy Act and the Environment (Protection) Act, 1986.
3. The AERB reports to the Atomic Energy Commission.
Which of the statements given above is/are correct?
a) 1 only b) 1 and 2 only
c) **2 and 3 only** d) 1, 2 and 3
20. Consider the below statement with regard to human genome sequencing:
1. India is among the league of countries who have demonstrated the capability of mapping all the genes of a human.
2. The world's first human genome sequence was completed in 2003 by the International Human Genome Project, to which Indian scientists had also contributed.
Which of the statements given above is/are NOT CORRECT?
a) 1 only
b) **2 only**
c) Both 1 and 2
d) Neither 1 nor 2
21. Consider the following statements regarding Jason Continuity of Service (Jason-CS) mission:
1. The mission is dedicated to measuring the height of the ocean.
2. It is a joint effort of the National Aeronautics and Space Administration (NASA) and the Indian Space Research Organisation (ISRO).
Which of the statements given above is/are not correct?
a) 1 only
b) **2 only**
c) Both 1 and 2
d) Neither 1 nor 2

22. With reference to the UMANG app, consider the following statements:

1. It was developed by the National e-Governance Division (NeGD), Ministry of Electronics & IT.
2. It provides access to high impact services of various organizations of central government only.

Which of the statements given above is/are correct?

- a) **1 only**
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

23. With reference to Negative Yield Bonds, consider the following statements:

1. These are debt instruments that offer to pay the investor a maturity amount lower than the purchase price of the bond.
2. These are generally issued by central banks or governments.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) **Both 1 and 2**
- d) Neither 1 nor 2

24. With reference to Masala Bond, consider the following statements:

1. Masala Bonds are rupee-denominated bonds to raise funds from the overseas market in Indian rupees.
2. Any corporate body except Indian banks is eligible to issue these bonds overseas.

Which of the statements given above is/are correct?

- a) **1 only**
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

25. The Arria Formula, an informal arrangement of discussion is related to?

- a) North Atlantic Treaty Organization (NATO)
- b) World Trade Organization (WTO)
- c) International Labour Organization (ILO)
- d) **United Nations Security Council (UNSC)**



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E	10%

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VST : TEST CENTRES

BHUBANESWAR, CUTTACK, BERHAMPUR, SAMBALPUR, KOLKATA

Syllabus	No. of Questions
History of Modern India	5
Geography of India	5
General Science	8
Environment & Ecology	7
Indian Constitution	8
Indian Economy	7
Current Affairs	10

TEST PATTERN: OBJECTIVE TYPE OFFLINE TEST

Total Marks	: 100
Total Questions	: 50 Q
Time Duration	: 1 Hour
Per Question	: 2 Marks
Negative Marking	: 0.66 Marks

- Ex. Vanik Students refers to those students who were previously enrolled in classroom courses like Banking, SSC, Banking+ SSC+ Railway, OSSC, ASO, CT/B.Ed batches.
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