DAILY G.K SET-09 1. Which of the following is used to cut a DNA strain at 2). It provides at least 150 days of wage employment			
a particular location?		a financial year to every household whose adult	
A. Ligase Enzyme B. Polymerase Enzyme		members volunteer to do unskilled manual work.	
C. Restrictase Enzyme D. Transferase Enzyme		3). A job card is issued for the family availing	
2. Which of the following is a Programming Software?		employment under the Act.	ic running avaning
A. Disk Cleanup B. Win	_	Which of the statement given above is/are correct?	
	ual Basic	A. 1 only	B. 1 and 2 only
3. Given below are two statements, or		C. 2 and 3 only	D. 1 and 3 only
Assertion (A) and the other as Reason (R):		9. Which of the following par	•
Assertion (A): Phytoplankton must have light from the		while calculating GDP of a country?	
sun, so they live in the well-lit surface layers (euphotic		1). Value of all final goods and services	
zone) of oceans and lakes.		2). Production within a country	
Reason (R): Phytoplankton obtains their energy		3). Production within a particular time framework	
chrough photosynthesis, as do trees and other plants on		Select the correct answer using the code given below:	
and.		A. 1 only	B. 1 and 2 only
Select the correct answer from the codes given below:		C. 1 and 3 only	D. 1, 2 and 3
A. Both (A) and (R) are true and (R) is the correct		10. Consider the following st	-
explanation of (A)		1). Organized sector jobs are registered and regulated	
B. Both (A) and (R) are true but (R) is not the correct		by the government through various legislations.	
explanation of (A)		2). In India most of jobs are in organized sectors.	
C. (A) is true but (R) is false		3). PM Shram Yogi Mandhan Yojana is a pension	
D. (A) is false but (R) is true		scheme for those working in unorganized sectors.	
4. The least productive ecosystem is		Which of the statements given above is/are correct?	
A. Ocean B. Des	ert	A. 1 and 3 only	B. 2 only
C. Forests D. Gra	ssland	C. 2 and 3 only	D. 1, 2 and 3
5. Which one of the following represents an ecotone		11. An galvanometer can be converted into an ammete	
between marine and terrestrial ecosystem?		by connecting a low resistance in	
A. Mangrove B. Gra		A. Parallel	B. Series
•	er Bank	C. Series and Parallel both	D. None of these
6. Which of the following directly contribute to		12. Mirage is due to	
ncreasing in Human Capital?		A. Total internal reflection	B. Refraction
1). Education 2). Vocational training 3). Medical care		C. Reflection	D. None of these
Select the correct answer using the code given below:		13. Why tyres are made of sy	nthetic rubber?
A. 1 and 2 only B. 2 ar	nd 3 only	A. Its coefficient of friction wi	th road is large
C. 1 and 3 only D. 1, 2	and 3	B. Its coefficient of friction is small	
7. Consider the following statements with reference to		C. It can handle high temperature and pressure	
poverty:		D. It is easy to prepare	
1). Every person living in the same region is equally		14. Ideally Superconductivity means	
vulnerable to the impacts of a natural disaster.		A. very feeble current	
2). Social exclusion can be a cause as well as a		B. very large current	
consequence of poverty.		C. current without facing any resistancce	
3). India has the largest single concentration of the poor		D. current due to positive particles	

15. Angular momentum is equal to _

C. Linear velocity × Angular velocity

B. Mass × Angular velocity

D. Mass × Linear velocity

A. Moment of inertia × Angular velocity

16. The movement of an object along the circumference

of a circle or rotation along a circular path is called

MGNRE

1). It guarantees Right to Work to poor rural bouseholds

8. Consider the following statements about

Which of the statements given above is/are correct?

B. 2 and 3 only

D. 1 and 3 only

A. Oscillatory motion B. Circular motion B. saw dust is poor conductor of heat C. Rotational motion D. None of thes C. saw dust is a good conductor of heat D. saw dust will not get inelted easily D. saw dust will not get inelted easily C. saw dust is a good conductor of heat D. saw dust will not get inelted easily C. saw dust is a good conductor of heat D. saw dust will not get inelted easily C. saw dust is a good conductor of heat D. saw dust will not get inelted easily C. It is easy to burst a gas-filled balloon with a needle than with a nail. It is because A. Gas is reactive with the needle B. Nail exerts more pressure than needle on the balloon C. Needle exerts more pressure than nail on the balloon

D. Nail is more longer than needle.

ANSWER

1. Answer : Option C

Restrictase enzyme or restriction endonuclease or Molecular Scissors are the enzymes that help in cutting DNA into fragments at a pre-designated location known as restriction sites.

Thus, option C is the correct answer

2. Answer: Option D

- Visual Basic is a third generation event driven programming language from Microsoft.
- Disk Defragmenter is a utility in Microsoft Windows designed to increase data access speed by rearranging files stored on a disk.
- Disk Clean-up is a computer maintenance utility included in Microsoft Windows designed to free up disk space on a computer's hard drive.

3. Answer: Option A

Phytoplankton obtains their energy through photosynthesis, as do trees and other plants on land. This means phytoplankton must have light from the sun, so they live in the well-lit surface layers (euphotic zone) of oceans and lakes. Phytoplanktons forms the base of the marine and freshwater food webs and are key players in the global carbon cycle. They account for about half of global photosynthetic activity and about half of the oxygen production, despite amounting to only about 1% of the global plant biomass.

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4. Answer: Option B

Globally, patterns of primary productivity vary both spatially and temporally. The least productive ecosystems are those limited by heat energy and water like the deserts and the polar tundra. The most productive ecosystems are systems with high temperatures, plenty of water and lots of available soil nitrogen.

5. Answer :Option A

An ecotone is an area that acts as a boundary or a transition between two ecosystems. A common example could be an area of marshland between a river and its riverbank. Ecotones are of great environmental importance. Because the area is a transition between two ecosystems or biomes, it is natural that it contains a large variety of species of fauna and flora as the area is influenced by both the bordering ecosystems. Examples of ecotones include marshlands (between dry and wet ecosystems), mangrove forests (between terrestrial and marine ecosystems), grasslands (between desert and forest), and estuaries (between saltwater and freshwater). Mountain ranges can also create ecotones due to the changes in the climatic conditions on the slopes.

6. Answer :Option D

Option (d) is correct: Population becomes human capital when there is an investment made in the form of education, training and medical care. In fact, human capital is the stock of skill and productive knowledge embodied in them. Investment in human capital (through education, training, medical care) yields a return just like investment in physical capital. This can be seen directly in the form of higher incomes earned because of the higher productivity of the more educated or the better-trained persons, as well as the higher productivity of healthier people

7. Answer :Option E

Statement 1 is incorrect: Vulnerability is analysed on the basis of the greater risks some social groups face at the time of natural disasters (earthquakes, tsunami), terrorism etc. Vulnerability describes the greater probability of being more adversely affected than other people when bad time comes for everybody, whether a flood or an earthquake or simply a

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fall in the availability of jobs. So, if the farm of both rich and poor farmer got flooded, the most likely poor farmer will be more severely affected by it.

Statement 2 is correct: According to concept of Social exclusion, poverty must be seen in terms of the poor having to live only in a poor surrounding with other poor people, excluded from enjoying social equality of better-off people in better surroundings. Social exclusion can be both a cause as well as a consequence of poverty in the usual sense. Broadly, it is a process through which individuals or groups are excluded from facilities, benefits and opportunities that others (their "betters") enjoy.

Statement 3 is correct: India has the largest single concentration of the poor in the world.

8. Answer: Option D

Statement 1 is correct: The Mahatma Gandhi National Rural Employment Guarantee Act 2005 (MGNREGA) guarantees the Right to Work to poor rural households.

Statement 2 is incorrect: It provides at least 100days of wage employment in a financial year to every household whose adult members volunteer to do unskilled manual work.

Statement 3 is correct: A job card is issued for the family availing employment under the Act.

9. Answer :Option D

The value of final goods and services produced in each sector during a particular year provides the total production of the sector for that year. And the sum of production in the three sectors gives what is called the Gross Domestic Product (GDP) of a country. It is the value of all final goods and services produced within a country during a particular year. GDP shows how big the economy is.

10. Answer :Option A

Statement 1 is correct: Organized sector jobs are registered and regulated by the government through various legislations which are given in various laws such as the

Factories Act, Minimum Wages Act, Payment of Gratuity Act, Shops and Establishments Act etc.

Statement 2 is incorrect: In India the bulk of the jobs are in unorganized sectors.

Statement 3 is correct: PM Shram Yogi Mandhan Yojana is a pension scheme for those working in unorganized sectors.

11. Answer: Option A

A Galvanometer van be converted into an ammeter by connecting a low resistance in parallel. A galvanometer can be converted in to a voltmeter by connecting a high resistance in series.

12. Answer : Option A

Mirage is an optical illusion of water appears in desert in a hot summer day. This is due to total internal reflection.

13. Answer : Option A

• Tyres are made of synthetic rubber because its coefficient of friction with the road is larger and therefore large force of friction acts on it, which stops sliding at turns.

14. Answer :Option C

 Superconductivity is a phenomenon of exactly zero electrical resistance and expulsion of magnetic flux fields occurring in certain materials, called superconductors.

15. Answer :Option A

- Angular momentum is a vector quantity that is a measure of the rotational momentum of a rotating body or system.
- Angular momentum is equal to the product of the angular velocity of the body and its moment of inertia around the axis of rotation.

16. Answer : Option B

- Circular motion is a movement of an object along the circumference of a circle or rotation along a circular path.
- Oscillatory motion is the repeated motion in which an object repeats the same movement over and over.
- Rotational motion is the rotation around a fixed axis or about a fixed axis of revolution.

17. Answer : Option B

The focal point (F) and focal length (f) of a positive (convex) lens, a negative (concave) lens, a concave mirror, and a convex mirror. In optometry, the least distance of distinct vision (LDDV) or the reference seeing distance (RSD) is the closest someone with "normal" vision (20/20 vision) can comfortably look at something. In other words, LDDV is the

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minimum comfortable distance between the naked human eye and a visible object. The least distance of distinct vision is 25 cm.

18. Answer: Option C

Magnetic tape is a medium for magnetic recording, made of a thin, magnetizable coating on a long, narrow strip of plastic film. Devices that record and play back audio and video **using magnetic tape are tape recorders** and video tape recorders. A device that stores computer data on magnetic tape is known as a tape drive. Magnetic tape revolutionized broadcast and recording. It allowed radio, which had always been broadcast live, to be recorded for later or repeated airing **19. Answer:**Option B

• Sawdust acts as an **insulator against the surrounding temperatures** and helps maintain the low temperatures of ice, so ice is packed in sawdust always or sometimes in layers of sackcloth.

20. Answer: Option C

It is easy to burst a gas-filled balloon with a needle than with a nail. It is because needle exerts more pressure than nail on the balloon.

