



Forum for KAS/PSI/FDA/PC

Science/Environment Analysis (KAS-2010 to 2020)

KAS Prelims Paper-II (Science/Environment 2020)

- 1. Which among the following is/are threatsfor the Great Barrier Reef in Australia?
 - A. Surface water temperature rising
 - B. Crown-of-Thorns Starfishes
 - C. Oil transportation
 - D. Tourism

Choose the correct answer from theoptions given below:

- (1) Only A
- (2) Only C
- (3) Only C and D
- (4) Only A and B
- 2. Solid Waste Management Rules 2016, is notified based on the provisions made under
 - (1) The Environment Protection Act, 1986
 - (2) The Water (Prevention and Control of Pollution) Act, 1974
 - (3) The Karnataka Municipalities Act, 1964
 - (4) The Karnataka MunicipalCorporations Act, 1976
- 3. Eco-development" means
 - (1) In situ conservation of biological diversity involving local communities
 - (2) Ex situ conservation
 - (3) Development of waste land
 - (4) Development of forest land
- 4. Consider the following statements:

Assertion (A): Tropical rain forests are

disappearing fast from developing countries like India.

Reason (R): No value is attached to





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these forests because they are poor in biodiversity.

Choose the *correct* answer from theoptions given below:

- (1) Both Assertion and Reason are true and Reason is the correct explanation of the Assertion.
- (2) Both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion.
- (3) Assertion is true, but Reason is false.
- (4) Both Assertion and Reason are false.
- 5. After a person quits smoking, the lungs can heal to a certain extent, because of
 - (1) Decrease in carbon monoxide
 - (2) Increase in oxygen uptake
 - (3) Synthesis of new mucosa
 - (4) Long-term inflammatory changes
- 6. Consider the following four conditions (A to D) and select the correct pair of adaptations to environment in desertlizards.
 - A. Burrowing in soil to escape hightemperature.
 - B. Losing heat rapidly from the bodyduring high temperature.
 - C. Bask in sun when temperature is low.
 - D. Insulating body due to thick fattydermis.

Choose the correct answer from the options given below:

- (1) A and B
- (2) C and D
- (3) A and C
- (4) B and D
- 7. Which of the following statement/(s) is/are true with regard to "Nuclear Fuel Cycle"?
 - A. It is the series of industrial processes which involve the production of electricity from uranium in nuclear power reactors.
 - B. The nuclear fuel cycles start withthe mining of uranium and end withthe disposal of nuclear waste.





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C. To prepare uranium for use in a nuclear reactor, it undergoes the steps of mining, milling, conversion, enrichment and fuel fabrication.

Choose the correct answer from the options given below:

- (1) Only A and C
- (2) Only B and C
- (3) Only A
- (4) A, B and C
- 8. Consider the following about Geographical Indications of Goods (Registration and Protection) Act, 1999:
 - A. It is used for agricultural, natural and manufactured goods and services.
 - B. For a product to get GI tag, the goods need not be produced or processed or prepared in that region.

Which of the statement/(s) is/are correct?

Choose the correct answer from the options given below:

- (1) Only A
- (2) Only B
- (3) Both A and B
- (4) None of the above
- 9. Match List-I with List-II.

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A. Population I. Part of the Earth

consisting of all the ecosystems of the

world

B. Community II. Assemblage of all

the individuals belonging to different

species occurring in an area

C. Ecosystem III. Group of similar

individuals belonging to the same species





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foundin an area

D. Ecosphere IV. Interaction between

the living organisms and their physical

environmental components

V. Classification of organisms based on the

type of environment

Choose the correct answer from the options given below:

Α C D

- Ш (1)
- (2) Ш III
- III (3) Ш
- 11 IV (4) Ш
- 10. Earthworms used for Vermicompostingis/are
 - A. Eisenia fetida
 - Lumbricus rubellus
 - Caenorhabditis elegans C.
 - D. **Platyhelminthes**

Choose the correct answer from theoptions given below:

- (1) Only A
- (2) Only A and B
- (3) Only A, B and C
- A, B, C and D (4)





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- 11. Precision agriculture is a scientific endeavour to improve the agricultural management by the application of
 - (1) Latest agricultural tools and implements
 - (2) Use of good quantity seed drills
 - (3) By application of information technology and satellite based technology
 - (4) Use of goods and powerful extension strategies
- 12. The "Red Data Book" is the documentation of rare and endangered species of
 - A. Animals
 - B. Plants
 - C. Fungi
 - D. Arthropods

Choose the correct answer from the options given below:

- (1) Only A
- (2) A, B, C and D
- (3) A and D
- (4) B and C
- 13. Colchicine alkaloid is obtained from
 - (1) Opium
 - (2) Pyrethrum
 - (3) Glory lily
 - (4) Sarpagandha
- **14.** There is a great deal of variation in the composition of milk. The factors responsible for such variation in the composition are
 - A. Stage of Lactation
 - B. Intervals between milking
 - C. Environmental conditions at milking
 - D. Individual variation



15.

16.

17.

18.

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Choose the correct answer f	from theoptions	given below:
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(1) A and B	
(2) B and C	
(3) B, C and D	
(4) A, B, C and D	
The control of the control of the control of the 2040 All to the Theoretical	
The number of tigers in Karnataka as per the 2018 All India Tiger Estimation	on
Report is	
(1) 526	
(2) 524	
(3) 512	
(4) 442	
An ecological "Nic <mark>he"</mark> can be defined as	
(1) The various habitats an organismmay inhabit	
(1) The various habitats an organismmay inhabit	
(2) The spec <mark>ific environment anorganism inhabits</mark>	
(3) The role an organism plays in its community	
(4) The inorganic, non-living aspects of a given area	
JE O D E C L C H To K A C	
National Bravery Award winners for theyear 2019 from Karnataka are	
(1) Venkatesh and Aarti	
(2) Aarti and Suresh	
(3) Bharath and Sharath	
(4) None of the above	
Evenness in the distribution of species ismeasured when we use	
(1) Species richness	
(2) Genetic diversity	
(3) Simpson index	
(4) Number of genera	





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- **19.** Which of the following statementregarding efficiency of energy transfer through food webs is *false*?
 - (1) A trophic level can support more herbivores than carnivores.
 - (2) Birds and mammals have lowproduction efficiency.
 - (3) The efficiency of energy transfer depends on the total production at a particular trophic level.
 - (4) Herbivores are less efficient with respect to assimilation efficiencythan carnivores.
- 20. What are the metallic constituents ofhard water?
 - (1) Magnesium, Calcium and Tin
 - (2) Iron, Tin and Calcium
 - (3) Calcium, Magnesium and Iron
 - (4) Magnesium, Tin and Iron
- 21. Interferons are glycoproteins which stimulate the synthesis of
 - (1) Antibacterial proteins
 - (2) Antifungal proteins
 - (3) Antiviral proteins
 - (4) Anti T-cell proteins
- 22. Which of the following criteria are used todefine biodiversity hotspots?

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- A. Species diversity
- B. Vegetation density
- C. Endemism
- D. Ethno-botanical importance
- E. Threat perception
- F. Adaptation of the species to localclimate

Choose the correct answer from theoptions given below:

(1) A, B and F





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- (2) B, D and F
- (3) A, C and E
- (4) C, D and F
- 23. The growing plant bends towards the source of light only on one side. Identify the best explanation for this phenomenon.
 - 1. Light stimulates the cells on the illuminated side to increase in length
 - 2. Shoot apices are attracted by light
 - 3. They need light for photosynthesis
 - 4. Auxin accumulates towards darker side to induce greater cell elongation

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- 24. Pick out the pair which is *incorrectly* matched regarding their status as per IUCN.
 - (1) Nilgiri Tahr Endangered
 - (2) Kashmir Red Stag Threatened
 - (3) Pygmy Hog Critically endangered
 - (4) Bramble Cay Melomys Extinct

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- 25. Kigali Agreement 2016 is a big step infighting climate change. It is related to which of the following?
 - (1) Amendment to the Montreal Protocol to reduce the manufacture and use of Hydrofluorocarbons (HFCs).
 - (2) Amendment to the Montreal Protocol to reduce the manufacture and use of Chlorofluorocarbons (CFCs).

Which of the above statements is/arecorrect?

Select the code for the correct answerfrom the options given below:

(1) A only





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- (2) B only
- (3) Both A and B
- (4) Neither A nor B
- 26. Which of these are tiger reserves in the State of Karnataka?
 - (1) Bannerghatta National Park
 - (2) Daroji Wildlife Sanctuary
 - (3) Cauvery Wildlife Sanctuary
 - (4) Kudremukh National Park

Select the code for the correct answerfrom the options given below:

- (1) A and D only
- (2) A, C and D only
- (3) A, B, C and D
- (4) None of the above
- 27. Which of these are true about Hydrofluorocarbons (HFCs)?
 - (1) HFCs, organic compounds that contain fluorine and hydrogen atoms, are commonly used in refrigerators and air-conditioners in place of chlorofluorocarbons (CFCs).
 - (2) HFCs do not harm ozone layer asmuch as CFCs do.
 - (3) HFCs do not cause global warming at all.

Select the code for the correct answerfrom the options given below:

- (1) A and B only
- (2) B and C only





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- (3) A and C only
- (4) A, B and C
- 28. Name the new species of fish which was discovered recently in Tunga River near the Kudremukh National Park
 - (1) Pethia Atra
 - (2) Pethia Canius
 - (3) Pethia Striata
 - (4) Pethia Cumingii
- 29. Khaira disease in rice is caused due to the deficiency of
 - (1) Molybdenum
 - (2) Calcium
 - (3) Zinc
 - (4) Phosphorus
- **30.** According to the "Bureau of Indian Standards" the permissible "pH value" in drinking water should be in the range of
 - (1) 4.5 to 6.5
 - (2) 5.5 to 7.5
 - (3) 6.5 to 8.5
 - (4) 7.5 to 9.5
- 31. You have taken up a project to create night-shelters for homeless people during the winter season. Within a week of establishing the shelters, you have received complaints from the residents of the area about the increase in theft cases with a demand to remove the shelters. What is best for you to do?
 - (1) Ask them to lodge a written complaint in the police station and let the investigation happen first.
 - (2) Assure residents of an enquiry immediately into the matter.
 - (3) Ask residents to consider the humanitarian effort made.





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	(4) Continue with the project	andignore their complaint.
32.	Match the conventions (List I) v List I (Convention)	with theirAgenda (List II) List II (Agenda)
	A. Basel Convention, 1989B. Vienna Convention, 1985	- I. Protection of theozone layer
		II. Control of transboundary movements of
		and hazardous wastes their disposal
	C. Stockholm Convention, 2001 -	III. Protection of the marine environment of
	the	Baltic Sea
	D. New Helsinki Convention, 199 environment	IV. Protection of human health and
		frompersistent organic pollutants
	Select the code for the correct A B C D (1) I II IV III (2) II I IV III (3) II I III IV (4) I II III IV	ct answer from the opti <mark>ons</mark> given below:
33.	Muscle fatigue occurs due to the	accumulation of which of the following?
	(1) Pyruvic acid	
	(2) Acetic acid	
	(3) Lactic acid	
	(4) Uric acid	
34.	Match the study disciplines (List I) v	with the subjects of study (List II):
	List I	List II
	(Study Discipline) (Sub	ject of Study)





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1.	Entomology	I. Algae
2.	Mycology	II. Fungi
3.	Phycology	III. Insects
4.	Desmology	IV. Ligaments

Select the code for the correct answer from the options given below:

	Α	В	С	D
(1)	Ш	П	IV	I
(2)	Ш	П	I	IV
(3)	П	Ш	IV	I
(4)	П	Ш	I	IV

- 35. Consider the following hydrocarbons:
 - (1) Methane
 - (2) Ethane
 - (3) Propane
 - (4) Butane
 - (5) Pentane

What is the correct sequence of increasing order of their molecular weight?

Select the code for the correct answerfrom the options given below:

- (1) A, B, D, C, E
- (2) B, A, D, C, E
- (3) A, B, C, D, E E S G H T K A S
- (4) C, B, A, D, E
- 36. The pendulum of a clock consists of a heavy point mass (bob) tied to a massless string. It is oscillating faster and so the clock is going fast. What option below should be chosen in order to reduce the time of oscillation?
 - (1) The mass of the bob should beincreased
 - (2) The length of the pendulum shouldbe increased
 - (3) The length of the pendulum shouldbe decreased
 - (4) The mass of the bob should be decreased





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- 37. With reference to 'graphene', which following statements is/are correct?
 - A. Graphene conducts electricity faster at room temperature than any other known material.
 - B. Graphene is a crystalline allotrope of carbon with two-dimensional properties.
 - C. It is a bad conductor of heat.

Select the code for the correct answer from the options given below:

- 1. A and B only
- 2. A only
- 3. B only
- 4. A, B and C
- 38. Consider the following statements:
 - A. Pyrolusite is an ore of manganese.
 - B. Galena is an ore of lead.

Which of the above statements is/arecorrect?

Select the code for the correct answerfrom the options given below:

- (1) A only
- (2) B only
- (3) Both A and B
- (4) Neither A nor B
- 39. Angioplasty, a method of treatmentincludes inserting a small tube that acts as a scaffold to support the inside of the coronary artery. What is this tube known as ?
 - (1) Stent RES GHT KAS
 - (2) Catheter
 - (3) Balloon
 - (4) Atherectomy device
- **40.** With reference to atomic power, which of the following statements is/are correct?
 - A. India conducted its first nuclear detonation at Pokhran in Rajasthanon 18 May. 1974.
 - B. The fuel used in the nuclear reactor is cadmium.
 - C. The energy of a thermal neutron is about 0.025 eV.

Select the code for the correct answerfrom the options given below:





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- (1) A and C only
- (2) B and C only
- (3) A only
- (4) A, B and C
- 41. Consider the following statements about the hardness of water:
 - A. Temporary hardness is caused by the presence of dissolved calcium bicarbonate and magnesium bicarbonate.
 - B. Permanent hardness is caused by the presence of dissolved calcium sulphate/calcium chloride and/or magnesium sulphate/magnesiumchloride.
 - C. One of the methods of removing permanent hardness is boiling the hard water

Which of the above statements is/are correct? Select the code for the correct answerfrom the options given below:

- (1) A only
- (2) A and B only
- (3) B and C only
- (4) A, B and C
- **42.** With a blunt knife, cutting a vegetable is relatively difficult than with a sharp knifebecause, for the same force
 - (1) The area under the knife edge is lesser in the case of blunt knife
 - (2) The pressure applied on the vegetable is lesser in the case of blunt knife
 - (3) The pressure applied is less in the case of a sharp knife
 - (4) The pressure applied is more in the case of a blunt knife
- **43.** Match the chemicals (List I) with their usage (List II):

List I List II

(Chemicals) (Usage)

A. Carbon Tetrachloride I. Disinfectant

B. Iodoform II. Fire Extinguisher

C. Acetone III. III. Welding

D. Acetylene IV. Nail Polish Remover





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Select the code for the correct answer from the options given below:

	Α	В	С	D
1.	I	Ш	IV	П
2.	П	1	IV	Ш
3.	П	1	Ш	IV
4.	Ш	1	IV	П

- 44. The nucleus of an atom contains which ofthe following?
 - (1) Protons and Neutrons
 - (2) Protons and Electrons
 - (3) Neutrons and Electrons
 - (4) Only Neutrons
- 45. A company has modernised and restored the critical 1035 MW Sharavathi hydropower plant in Karnataka that accounts for 25% of the Karnataka Power Corporation's generation. It got the IndiaSmart Grid Foundation (ISGF) Award for completing the work in just 6 months. Identify the company out of the following.
 - (1) Sterlite Industries
 - (2) Bharat Heavy Electricals Limited (BHEL)
 - (3) Suzlon Energy
 - (4) ABB India

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- 46. The image formed by a plane mirror is
 - (1) Real
 - (2) Virtual
 - (3) May be virtual or real depending on the position of the object
 - (4) Cannot be said exactly

KAS Prelims Paper-II (Science/Environment 2014)





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- **47.** The ministry of Environment, Forests and Climate change provide financial assistance to Eco- clubs to promote environmental awareness and educate school children under the programme
 - a) National mission for a Green India
 - b) National Eco-club Programme
 - c) National Green peace Programme
 - d) National Green Corps.
- **48.** Dr. Salim Ali is well known
 - a) Ornithologist
 - b) Biologist
 - c) Environmentalist
 - d) Dermatologist
- **49.** As per the report of the high level working group on the western Ghats headed by Dr. K. Kasturirangan, approximately how many villages of Karnataka were included as part of eco-sensitive area
 - 1)800
 - 2)1500
 - 3)500
 - 4)2500
- 50. The total number of National parks and sanctuaries in Karnataka are?
 - a) 5 and 27 respectively
 - b) 6 and 25 respectively
 - c) 4 and 23 respectively
 - d)6 and 29 respectively
- **51.** As per Plastic wastes (Management & Handlin) rules, 2011 manufacturing of plastic bags less than thickness is banned.
 - a) 25 microns
 - b)30 microns
 - c) 35 microns
 - d)40 microns
- **52.** Movement of nutrients in the eco-system is always
 - a) Cyclic
 - b)Linear
 - c) Parallel
 - d)Horizontal





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- 53. Inverted pyramid of number and biomass, are found in
 - a) Parasitic food-chain and forest ecosystem respectively
 - b) Grassland ecosystem and forest ecosystem respectively
 - c) Parasitic food chain and pond ecosystem respectively
 - d)Pond ecosystem and forest ecosystem respectively
- 54. In India the area declared as a Biodiversity hot spot is
 - a) Himalayas
 - b) Aravalli Ranges
 - c) Vindaya- Satpuras
 - d) Nallamalla Ranges
- 55. In the food chain which of the following is considered as a primary producer?
 - a) Heterotrophs
 - b) Autotrophs
 - c) Plants
 - d)Predators
- **56.** Which of the following is an example of ex-situ conservation?
 - a) Wild life sanctuary
 - b)Seed bank
 - c) Sacred grooves
 - d) National park
- 57. Consider the following international environment conservation/ protocols/ conferences with their major themes:
 - 1)The UN climate change conference held in Poland in Dec, 2008 discuses development and transfer of technologies, financial mechanism reducing emission from deforestation and disaster management
 - 2) The Basel convention in 1989 was on the control of transboundary movement of hazardous wastes and their disposal
 - 3) Montreal protocol adopted in 1987 referred to the specific measure to be taken on substances that deplete the ozone layer.
 - 4) The Vienna convention in 1985 discussed the international trade in endangered species of wild fauna and flora

Which of the above statement is/ are correct?

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





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58. Biosphere reserve have been established to conserve biodiversity and genetic integrity of plants, animals and microorganisms. Consider the following pairs:

Biosphere Reserve	state	
1. Dehang- Dabang	I. Arunachal Pradesh	
2. Manas	II. Assam	
3. Simlipal	III. Jharkh <mark>an</mark> d	
4. Agasthya-malai	IV. Karnataka	

Which of the above pairs are correctly matched?

- a) 1 and 2 only
- b) 1, 2 and 3 only
- c) 1,2 and 4 only
- d)1,2,3 and 4
- 59. Consider following propagules:

Rhizome of ginger

Tuber of sweet potato

Bulb of onion

Sucker of banana

Which of the above is/are modified of roots?

- a) 1 and 2 only
- b) 2 only
- c) 1 and 3 only
- d) 1,3 and 4 only
- 60. Match the major agricultural revolutions in India
 - 1. Golden revolution
 - 2. Grey revolution
 - Blue revolution
 - 4. Yellow revolution
 - 5. Pink revolution
 - 6. Round revolution

- 1. Fish production
 - 2. Oil seed production
- 3. prawn production
- 4. potato production
 - 5. Fruit production
- 6. fertilizer production





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Select the correct answer using the codes given below:

	Α	В	С	D	Ε	F
a)	3	4	2	5	1	6
b)	5	6	1	2	3	4
c)	4	3	2	1	6	5
d)	5	6	3	4	2	1

- **61.** Suitable impurities are added to a semiconductor depending on its use. This is done order to
 - a) Increase its life
 - b) Enable it to withstand higher voltages
 - c) Increase its electrical conductivity
 - d) Increase its electrical resistivity
- **62.** Which of the following planets was demoted from its planetary status in our solar system?
 - a) Uranus
 - b) Pluto
 - c) Neptune
 - d) Venus
- **63.** On a clean glass plate a drop of water spreads to form a thin layer whereas a drop of mercury remains almost spherical because
 - a) Cohesive forces for water is greater than adhesive force with glass
 - b) Cohesive forces for mercury is greater than adhesive force with glass
 - c) Density of mercury is greater than water
 - d) Adhesive forces for mercury is than cohesive force with glass
- **64.** In our homes a tester glows when it touches the live terminal of AC mains but does not glow when it touches neutral terminal, the reason for this is
 - a) Current is always converted from AC to DC when it is supplied
 - b) The live wire is a conductor but the neutral wire is not a conductor
 - c) The neutral terminal is at the same voltage as the ground
 - d) Current flows only through live wire never through the neutral wire
- **65.** The gas used for artificial ripening of fruits is





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- a) Methane
- b) Ethane
- c) Ethylene
- d) Acetylene
- **66.** The reason to keep us awake and sometimes sleepy even when we are not tired, is due to a hormone called
 - 1. Adrenaline
 - 2. Adenosine
 - 3. Thyroxin
 - 4. Serotonin
- 67. Mass number of atom is equal to
 - a) Number of electrons
 - b) number of neutrons
 - c) sum of the number of protons and neutrons
 - d) sum of the number of protons and electrons
- 68. In some parts of the world during severe winter, the surface of lakes is frozen leaving water below. the freezing at the bottom is prevented because
 - a) the conductivity of ice is low
 - b) the water has large latent heat of fusion
 - c) the water has large specific heat
 - d) the temperature of the earth at the bottom of the lakes is high
- 69. There are many different regions to the electromagnetic spectrum. These include
 - A. Visible light
 - B. gamma-rays
 - C. infrared
 - D. Micro-waves
 - E. radio-waves
 - F. ultra-violet
 - G. X-rays

Put them in order of increasing wavelength, starting with the shortest wavelength first

a) GBDAFCE





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- b) BGFADCE
- c) GBAFCDE
- d) BGFACDE
- 70. consider the following plant cell organelles and their specific functions

1. Chloroplast Photosynthesis 2. Mitochondria Respiration 3. Nucleus Secretion

4. Ribosomes protein synthesis

Which of the above pairs is/are matched correctly?

- 1. 2 only
- 2. 1 and 3 only
- 3. 1,2 and 4 only
- 4. 1,23 and 4
- 71. Genetically modified organisms are developed in modern biotechnology using which of the following technique?
 - 1. Insertion of genes from other organisms
 - 2. Removal of part of the genes
 - 3. Introduction of gene mutation
 - 4. Silencing of some gene/ genes.

Select the correct answer by choosing the codes given below:

- a) 2, 3 and 4 b) 1,2 and 4

 - c) 1,3 and 4d) 1,2 and 3
- 72. Venkataram Ramakrishnan and his co-worker got the Nobel prize in 2009. Their investigation was on the structural characterization of Ribosomes and they used the experimental organism viz.
 - a. Pyrolobus fumarii
 - b. Sulfobolus thurbers
 - c. Methanopyrus Kandiers
 - d. Thermus thermophiles





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73.	Dinosaurs were pre	sent during
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- a. Paleozoic era
- b. Cenozoic era
- c. Mesozoic era
- d. Proterozoic era
- **74.** A husband and wife have normal vision but further of both of them were colour-blind. Probability of their first daughter to be colour blind is
 - 1) 25%
 - 2) 50%
 - 3) 75%
 - 4) 0%
- 75. Mosquito transmits the following except
 - 1. Malaria
 - 2. Leishmaniasis
 - 3. Dengue
 - 4. Chikungunya
- 76. Consider the following pairs regarding national symbol of India
 - I. National animal

-Royal Bengal tiger

II. National heritage animal of India

-Hanuman Langur

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III. National mammal of India

-Elephant

IV. National bird

-Peacock

which of the above pairs are correct?

- a. I and II A S P S I P D A / A A D / P C]
- b. III and IV
- c. I and III
- d. I and Iv
- 77. Bird Flue is caused by influenza virus type
 - a) HINI
 - b) H5NI
 - c) H7NI
 - d) H9NI





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78. Match the following:

A. Natural active Immunity

B. Natural passive Immunity

C. Artificial active immunity

D. Artificial passive immunity

Anti rabies serum

Acquired after small pox infection

Transferred from mother to child

Develops due to vaccination

Correct match is:

A B C D

a) 2 1 4

b) 2 3 4

c) 3 4 2 2

d) 4 3 2 1

(1) .

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