# Series A

1.	Wł	nich of these is not a symptom of Pulmonary Tuberculos	is:		
	a)	Fever.			
	b)	Night Sweats.			
	c)	Loss of Weight.			
	d)	Nausea/vomiting.			
2.	Tul	berculin test is done on:			
	a)	Skin.			
	b)	Blood.			
	c)	Sputum.			
	d)	None of these.			
3.	ΑII	are first line drugs for tuberculosis except:			
	a)	Isoniazid.			
	b)	Rifampicin.			
	c)	Moxifloxacim.			
	d)	Pyrizanamide.			
4.	MDR Tuberculosis is an infection carved by bacteria resistant to:				
	a)	Isoniazid.			
	b)	Rifampin.			
	c)	Both A and B.			
	d)	None of these.			
5.	ТВ	is transmitted through:			
	a)	Sexual Contact.			
	b)	Air.			
	c)	Blood.			
	d)	All of above.			
6.	Wł	nich of the following is a protozoal infection:			
	a)	Dengue.			
	b)	Poliomyelitis.			
	c)	Malaria.			
	d)	None of these.			
7.	ΑII	can help in stopping transmission of Covid except:			
	a)	Social Distancing.			
	b)	Hand Hygeine.			
	c)	Wearing Masks.			
	d)	None of these			

8.	Ist dose of BCG vaccine is given at:				
	a)	Birth.			
	b)	1 Week.			
	c)	2 Weeks.			
	d)	4 Weeks.			
9.	Est	Estimated prevalence of latent Tuberculosis infection in India is:			
	a)	5%.			
	b)	10%.			
	c)	40%.			
	d)	80%.			
10.	Fol	lowing adverse event is a Contraindication of rechallenge	e:		
	a)	Hepatotoxiaty.			
	b)	Vomiting.			
	c)	Drug Rash.			
	d)	Drug Induced Thrombocytopenia.			
11.	Following drug should be given on empty stomach for better bioavailability:				
	a)	Isoniazid.			
	b)	Rifampicin.			
	c)	Ethambutol.			
	d)	Both (a) and (b).			
12.	Pyr	ndoxinc deficiency can occur d/t:			
	a)	Isoniazid.			
	b)	Rifampicin.			
	c)	Ethambutol.			
	d)	Pyrizammide.			
13.	DO	TS stands for:			
	a)	Direct Occurring Treatment Service.			
	b)	Directly Observed Treatment Strategy.			
	c)	Directly Observed Treatment Short Course.			
	d)	Directly Observed Treatment Services.			
14.	BC	G Vaccine is administered to the infant at:			
	a)	Birth.			
	b)	6 months.			
	c)	9 months.			
	d)	1 year.			

15.	RN	TCP was started in:	
	a)	1988.	
	b)	1990.	
	c)	1992.	
	d)	1994.	
16.	Αp	patient with Tuberculosis should avoid which foods:	
	a)	Orange, Mango.	
	b)	Red Meat.	
	c)	Caffeinated Drinks.	
	d)	Both B & C.	
17.	Foi	completion of treatment of a patient with simple TB, the	ne amount of money a and
	DO	TS provider gets:	
	a)	500.	
	b)	1000.	
	c)	1500.	
	d)	2000.	
18.	The	e theme of TB day 2020 was:	
	a)	It's time.	
	b)	Reach the 3 Million: reach, treat, cure everyone.	
	c)	Wanted: Leaders for a TB-free World.	
	d)	Unite to end TB.	
19.	ТВ	Day is celebrated on:	
	a)	24 <sup>th</sup> April.	
	b)	24 <sup>th</sup> March.	
	c)	24 <sup>th</sup> May.	
	d)	24 <sup>th</sup> August.	
20.	Wł	nich of the following Actors suffered and survived Tuber	culosis:
	a)	Dharmendra.	
	b)	Shah Rukh Khan.	
	c)	Deepika Padukone.	
	d)	Amitabh Bachan.	
21.	RN	TCP was revised to National Tuberculosis Elimination Pr	ogramme:
	a)	2016.	
	b)	2017.	
	c)	2018.	
	d)	2020.	

22.	ΑIC	OS stands for:	
	a)	Acute Inflammatory Demyelination Syndrome.	
	b)	Acquired Inflammatory Deficiency Syndrome.	
	c)	Acquired Immune Deficiency Syndrome.	
	d)	Acute Immune Deficiency Syndrome.	
23.	Wŀ	nich of the following is a component of Health:	
	a)	Social.	
	b)	Mental.	
	c)	Physical.	
	d)	All of the above.	
24.	Wł	no is the current Minister of Ministry of Health & Family	Welfare:
	a)	Harsh Mohan.	
	b)	Harsh Vardhan.	
	c)	Gh. Nabi Azad.	
	d)	None of these.	
25.	Mc	ode of transmission of Covid-19 is:	
	a)	Food.	
	b)	Sewage.	
	c)	Sexual contact.	
	d)	None of these.	
26.	Pol	lio is caused by:	
	a)	Virus.	
	b)	Bacteria.	
	c)	Fungi.	
	d)	None of these.	
27.	Na	tional Health Mission Programme was launched by GOI i	n:
	a)	2012.	
	b)	2013.	
	c)	2014.	
	d)	2015.	
28.	Wł	no is the Brand Ambassador of Pulse Polio drive in India:	
	a)	Amitabh Bachan.	
	b)	Shah Rukh Khan.	
	c)	Sachin Tendulkar.	
	d)	Virat Kohli.	

29. Which of the following is not a Fundamental Duty as enshrined in the Constitution of India:	
(a) To develop scientific temper	
(b) To promote brotherhood and strive to be a good human being	
(c) To respect the ideals of the Constitution	
(d) To develop spirit of enquiry.	
30. With reference to 73rd amendment act of the constitution, a Gram Sabha is a body	
consisting of:	
(a) All the adult population of the villages under the Panchayat.	
(b) The whole population of the villages under the Panchayat other than Children of less	
than five years. (c) The registered voters of the villages under the Panchayat.	
(d) None of the above.	
31. 40. A meteorite is:	
(a) a comet with a bright gaseous tail.	
(b) a piece of matter which burns and gets converted into ash as it enters the Earth's	
atmosphere from outer space.	
(c) a piece of matter which does not burn completely and reaches the surface of the earth.	
(d)None of the above.	
32. Which of the following climate type does not enjoy rainfall all-round the year:	
(a) Steppe type.	
(b) China type.	_
(c) Laurentian type.	
(d) British type.	
33. Which of the following are you likely to find in the Vale of Kashmir:	
(a) Chars.	
(b) Karewas.	
(c) Bils.	
(d) Bugyals.	
34. Consider the following pairs:	
Population	
Interaction	
Feature	
1. Mutualism : Both the species are benefited	
2. Competition : Both the species are harmed	
3. Commensalism : One species is harmed and the other is unaffected	

4. Amensalism : One species is benefited and the other is unaffected

(d) 1 and 4 only.	
39. Which of the following are the sources of Methane?	
1. Biomass burning.	
2. Landfills.	
3. Rice fields.	
4. Coal mining.	
5. Permafrost.	
Select the correct answer using the code given below:	
(a) 3 and 4 only.	
(b) 1, 3 and 4 only.	
(c) 1, 2 and 5 only.	
(d) 1, 2, 3, 4 and 5.	
40. Which among the following regions in India is/are biodiversity hotspots:	
1. Eastern Ghats.	
2. Eastern Himalayas.	
3. Nicobar Islands.	
Select the correct answer using the code given below.	
(a) 1 and 3 only.	
(b) 2 only.	
(c) 2 and 3 only.	
(d) 1, 2 and 3.	
41. complete the given series:	
2, 14, 98, 286.	
a) 1976.	
b) 2548.	
c) 980.	
d) 4802.	
42. If 15 Horses eat 15 bags of grain in 15 days, in how many days will one horse eat one bag	g of
grain:	
a) 15 Days.	
b) 1/15 Days.	
c) 1 Day.	
d) 30 Days.	

Directions (Qs. 43-46): Read the following passages and answer the questions that follow. Your answer to these question should be based on passage only.

## PASSAGE-1

A team of Canadian and American researchers has reached a step closer to developing effective treatments to prevent the brain from diseases like Alzheimer's

and Parkinson's by identifying a gene that controls the normal and pathological aging of neurons in the central nervous system. The team has revealed that the BMI-1 gene, which is responsible for aging of neurons, has been identified in mice and in humans as well while they were carrying out experiments on mice. The researchers highlighted the fact that the primary risk factor for diseases like macular degeneration, Parkinson's and Alzheimer's is aging of neurons.

- 43. An assumption taken by researchers is that
- (a) no significant study focused on the basic molecular mechanisms that control neuronal aging, has been conducted to date.
- (b) the BMI-1 gene behaves in a similar fashion in humans as in mice.
- (c) manipulating the BMI-1 gene could result in curing people suffering from Parkinson's or Alzheimer's.
- (d) Neurons in the brain age at a slower rate as compared to other cells in the human body.

#### PASSAGE-2

Leonardo da Vinci's masterpiece the Mona Lisa's smile has repeatedly been a subject of many - greatly varying - interpretations. Some have described the smile as both innocent and inviting. Many researchers have tried to explain why the smile is seen so differently by people. Professor Margaret Livingstone of Harvard University has argued that the smile is mostly drawn in low spatial frequencies, and so can best be seen from a distance or with one's peripheral vision. Thus, for example, the smile appears more striking when looking at the portrait's eyes than when looking at the mouth itself. 2.

- 44. Which of the following statements would strengthen Prof Margaret's claim?
- (a) Different people have different interpretations for the same portrait because of their different mental makeup.
- (b) A smile may appear to be a neutral expression depending on your mood.
- (c) Research has proved that different people focus on different areas while viewing a portrait.
- (d) People try to see themselves in a portrait; what they interpret is dependent on their personal qualities.

## **PASSAGE-3**

Akbari is no architect and his grand plan is no conceptual art project. Based at the prestigious Lawrence Berkeley National Laboratory in California, Akbari is a scientist who has come up with a new way to fight global warming. It could be the easiest solution you've ever heard of. His big idea is based on principles as old as the whitewashed villages that scatter the hills of southern Europe and North Africa. Turn

enough of the world's black urban landscape white, he says, and it would reflect enough sunlight to delay global warming, and grant us some precious breathing space in the global struggle to control carbon emissions.

- 45. It can be inferred from the above paragraph that
- (a) global warming occurs because of poisonous gases like carbon monoxide.
- (b) the whitewashed villages in the hills of Europe and North Africa were meant to counter global warming.
- (c) global warming probably occurs due to the earth absorbing sunlight.
- (d) global warming could spell doom for all of us on this earth.

## **PASSAGE-4**

In modern times, the meaning of the word metaphysics has become confusing because of popular beliefs that are really unrelated to metaphysics or ontology per se, viz. esotericism and occultism. Esotericism and occultism, in their many forms, are not concerned with inquiries into first principles or the nature of being, though they do tend to proceed on the metaphysical assumption that all being is "one".

46. It can be inferred that

- (a) Esotericism and Occultism explain the meaning of metaphysics with a lot of confusion.
- (b) Esotericism does not believe in the first principle that metaphysics believes in.
- (c) Metaphysics is concerned with inquiries into the nature of being.
- (d) Many forms of esotericism are related to metaphysics.
- 47. What should come in the place of question mark in the following letter number combination:

F6	, H8	. J 1	10	. L1	12	•

- a) N 15.
- b) 0 14.
- c) N 14.
- d) O 13.
- 48. The deepest lake in Kashmir is
- (a) Dal.
- (b) Wular.
- (c) Manasbal.
- (d) Anchar.
- 49. Vishav, Rambiara and Romshi are left bank tributaries of the river:
- (a) Shyok.
- (b) Jhelum.
- (c) Sind.
- (d)Chenab.

50. The Lake in J&K that lies between India and China border is:	
(a) Salt Lake.	
(b) Pangong Lake.	
(c) Tso Moriri Lake.	
(d) Wular Lake.	
51. Vyeth, Hydaspes, Behat on Koshur Derya are the other names of:-	
(a) River Jhelum.	
(b) River Indus.	
(c) River Chenab.	
(d) River Shyok.	
52. Which of the following pass joins Poonch and the Uri sector:	
(a) Baramulla Pass.	
(b) Hajipir Pass.	
(c) Banihal Pass.	
(d) None of these.	
53. Which of the following companies is awarded with 690 MW Rattle Project in the state of	
Jammu and Kashmir?	
(a) Reliance Power.	
(b) GVK Development Project.	
(c) TCS.	
(d) None of the above.	
54. In which of the following districts of Jammu and Kashmir their first Wind power project w	/ill
be installed by the Jammu and Kashmir Energy Development Department?	
(a) Doda.	
(b) Reasi.	
(c) Kathua.	
(d) Samba.	
55. The main purpose of the Super Computer is:	
a) High Speed Calculations.	
b) Weather Forecasting.	
c) Data Retrieval Operations.	
d) None of the above.	
56. An Electrical Pathway within a Computer is called:	
a) Circuit.	
b) Line.	
c) Bus.	
d) Track.	

57. CPU stands for:	
a) Computer Processing Unit.	
b) Central Processing Unit.	
c) Communication Processing Unit.	
d) All of the above.	
58. Trojan Horse is a:	
a) Animal.	
b) Sea Bird.	
c) Malware.	
d) None of the above.	
59. Phishing is related to:	
a) Catching Cold Water Fishes.	
b) Cyber Crime.	
c) Indoor Game.	
d) All of the above.	
60. WiFi stands for:	
a) Wide Frequency.	
b) Wireless Fidelity.	
c) World of Fiction.	
d) World of Futures.	

# **Rough Work Sheet**

	Ser	ries B		
1.	Αp	atient with Tuberculosis should avoid which foods:		
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	h)	Acute Immune Deficiency Syndrome.		

8.	Which of the following is a component of Health:
	e) Social.
	f) Mental.
	g) Physical.
	h) All of the above.
9.	Who is the current Minister of Ministry of Health & Family Welfare:
	e) Harsh Mohan.
	f) Harsh Vardhan.
	g) Gh. Nabi Azad.
	h) None of these.
10	Mode of transmission of Covid-19 is:
	e) Food.
	f) Sewage.
	g) Sexual contact.
	h) None of these.
11	Polio is caused by:
	e) Virus.
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12	National Health Mission Programme was launched by GOI in:
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19. Consider the following pairs:
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Feature
1. Mutualism : Both the species are benefited
2. Competition : Both the species are harmed
3. Commensalism : One species is harmed and the other is unaffected
4. Amensalism : One species is benefited and the other is unaffected
Which of the pairs given above is/are correctly matched?
(a) 1 and 2 only.
(b) 3 and 4 only.
(c) 1, 2 and 3 only.
(d) 1, 2, 3 and 4.

20. Which of the following are the sources of renewable energy?	
1. Geo-thermal energy.	
2. Biofuels.	
3. Biomass energy.	
4. Nuclear energy.	
Select the correct answer using the codes given below	
(a) 1 and 3 only.	
(b) 1, 2 and 3 only.	
(c) 2 and 4 only.	
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21. Which of the following is known as the Rain forests of the oceans?	
(a) Mangroves.	
(b) Coral reefs.	
(c) Sea grass.	
(d) Oysters.	
22. Which of the following pollutants are present in the motor vehicle exhaust emissions?	
1. Carbon Dioxide.	
2. Carbon Monoxide.	
3. Nitrous Oxide.	
4. Hydrocarbons.	
Select the correct answer using the code given below:	
(a) 1, 2 and 4 only.	
(b) 2, 3 and 4 only.	
(c) 1 and 3 only.	
(d) 1, 2, 3 and 4.	
23. Which of the following gases is/are associated with acid rain:	
1. Sulphur Dioxide.	
2. Nitrogen Oxides.	
3. Methane.	
4. Ozone.	
Select the correct answer using the code given below.	
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(b) 1, 2 and 3 only. (c) 2, 3 and 4 only.	
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combination:	
F6, H8, J 10, L12?	
a) N 15.	
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39. In which of the following districts of Jammu and Kashmir their first Wind power project w	ill
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(a) Doda.	
(b) Reasi.	
(c) Kathua.	
(d) Samba.	
40. The main purpose of the Super Computer is:	
a) High Speed Calculations.	
b) Weather Forecasting.	
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a) Circuit.	
b) Line.	
c) Bus.	
d) Track.	

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a) Comput	ter Processing Unit.	
b) Central	Processing Unit.	
c) Commu	unication Processing Unit.	
d) All of th	ne above.	
43. Trojan	n Horse is a:	
a) Animal.		
b) Sea Bird	d.	
c) Malwar	e.	
d) None o	f the above.	
44. Phishi	ng is related to:	
a) Catchin	g Cold Water Fishes.	
b) Cyber C	Crime.	
c) Indoor	Game.	
d) All of th	ne above.	
45. WiFi st	tands for:	
a) Wide Fr	requency.	
b) Wireles	ss Fidelity.	
c) World c	of Fiction.	
d) World	of Futures.	
	of these is not a symptom of Pulmonary Tuberculosis:	
•	Fever.	
f)	Night Sweats.	
	Loss of Weight.	
_		
	culin test is done on:	
•	Skin.	
f)	Blood.	
g)	Sputum.	
h)		
48. All are	e first line drugs for tuberculosis except:	
e)		
f)	Rifampicin.	<u> </u>
g)	Moxifloxacim.	
h)	Pvrizanamide.	

49. MDR	Tuberculosis is an infection carved by bacteria resistant	:0:
e)	Isoniazid.	
f)	Rifampin.	
g)	Both A and B.	
h)	None of these.	
50. TB is tr	ransmitted through:	
e)	Sexual Contact.	
f)	Air.	
g)	Blood.	
•	All of above.	
•	of the following is a protozoal infection:	
	Dengue.	
f)	Poliomyelitis.	
g)	Malaria.	
h)	None of these.	
52. All can	help in stopping transmission of Covid except:	
•	Social Distancing.	
-	Hand Hygeine.	
•	Wearing Masks.	
•	None of these.	
	e of BCG vaccine is given at:  Birth.	
f)	1 Week.	
g)	2 Weeks.	
•	4 Weeks.	
,	ted prevalence of latent Tuberculosis infection in India i	s:
	5%.	
f)	10%.	
g)	40%.	
•	80%.	
	ing adverse event is a Contraindication of rechallenge:	
	Hepatotoxiaty.	
f)	Vomiting.	
g)	Drug Rash.	
h)	Drug Induced Thrombocytopenia.	
	ing drug should be given on empty stomach for better b	ioavailability:
e)	Isoniazid.	
f)	Rifampicin.	
g)	Ethambutol.	
h)	Both (a) and (b).	
i)		

57. Pyndo	xinc deficiency can occur d/t:	
e)	Isoniazid.	
f)	Rifampicin.	
g)	Ethambutol.	
h)	Pyrizammide.	
58. DOTS 9	stands for:	
e)	Direct Occurring Treatment Service.	
f)	Directly Observed Treatment Strategy.	
g)	Directly Observed Treatment Short Course.	
h)	Directly Observed Treatment Services.	
59. BCG V	accine is administered to the infant at:	
e)	Birth.	
f)	6 months.	
g)	9 months.	
h)	1 year.	
60. RNTCP	was started in:	
e)	1988.	
f)	1990.	
g)	1992.	
h)	1994.	

# **Rough Work Sheet**

# Series C

1.	A meteorite is:	
	(a) a comet with a bright gaseous tail.	
	(b) a piece of matter which burns and gets converted into ash as it enters the Earth	's
	atmosphere from outer space.	
	(c) a piece of matter which does not burn completely and reaches the surface of	of the $ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{L}}}}$
	earth.	
	(d)None of the above.	
2.	Which of the following climate type does not enjoy rainfall all-round the year:	
	(a) Steppe type.	
	(b) China type.	_
	(c) Laurentian type.	
	(d) British type.	L
3.	Which of the following are you likely to find in the Vale of Kashmir:	
	(a) Chars.	
	(b) Karewas.	
	(c) Bils.	
	(d) Bugyals.	L
4.	Consider the following pairs:	
	Population	
	Interaction	
	Feature	
	1. Mutualism: Both the species are benefited	
	2. Competition: Both the species are harmed	
	3. Commensalism : One species is harmed and the other is unaffected	
	4. Amensalism: One species is benefited and the other is unaffected	
	Which of the pairs given above is/are correctly matched?	
	(a) 1 and 2 only.	
	(b) 3 and 4 only.	
	(c) 1, 2 and 3 only.	
_	(d) 1, 2, 3 and 4.	
5.	Which of the following are the sources of renewable energy?	
	<ol> <li>Geo-thermal energy.</li> <li>Biofuels.</li> </ol>	
	3. Biomass energy.	
	4. Nuclear energy.	
	Select the correct answer using the codes given below	
	(a) 1 and 3 only.	
	(h) 1 2 and 3 only	1 1

	(c) 2 and 4 only. (d) 1, 2, 3 and 4.	
6.	Which of the following is known as the Rain forests of the oceans?	
	(a) Mangroves.	
	(b) Coral reefs.	
	(c) Sea grass.	
	(d) Oysters.	
7.	Which of the following pollutants are present in the motor vehicle exhaust emissions	?
	1. Carbon Dioxide.	
	2. Carbon Monoxide.	
	3. Nitrous Oxide.	
	4. Hydrocarbons.	
	Select the correct answer using the code given below:	
	(a) 1, 2 and 4 only.	
	(b) 2, 3 and 4 only.	
	(c) 1 and 3 only.	
	(d) 1, 2, 3 and 4.	
8.	38. Which of the following gases is/are associated with acid rain:	
	1. Sulphur Dioxide.	
	2. Nitrogen Oxides.	
	3. Methane.	
	4. Ozone.	
	Select the correct answer using the code given below.	
	(a) 1 and 2 only.	
	(b) 1, 2 and 3 only.	
	(c) 2, 3 and 4 only.	
0	(d) 1 and 4 only.	
9.	Which of the following are the sources of Methane?	
	<ol> <li>Biomass burning.</li> <li>Landfills.</li> </ol>	
	3. Rice fields.	
	4. Coal mining.	
	5. Permafrost.	
	Select the correct answer using the code given below:	
	(a) 3 and 4 only.	
	(b) 1, 3 and 4 only.	
	(c) 1, 2 and 5 only.	
	(d) 1, 2, 3, 4 and 5.	

<ol> <li>Which among the following regions in India is/are biodiversity hotspots:         <ol> <li>Eastern Ghats.</li> <li>Eastern Himalayas.</li> <li>Nicobar Islands.</li> <li>Select the correct answer using the code given below.</li> <li>1 and 3 only.</li> <li>2 only.</li> <li>2 and 3 only.</li> <li>1, 2 and 3.</li> </ol> </li> <li>complete the given series:         <ol> <li>14 08 386</li> </ol> </li> </ol>
<ul> <li>2. Eastern Himalayas.</li> <li>3. Nicobar Islands.</li> <li>Select the correct answer using the code given below.</li> <li>(a) 1 and 3 only.</li> <li>(b) 2 only.</li> <li>(c) 2 and 3 only.</li> <li>(d) 1, 2 and 3.</li> <li>11. complete the given series:</li> </ul>
3. Nicobar Islands.  Select the correct answer using the code given below.  (a) 1 and 3 only.  (b) 2 only.  (c) 2 and 3 only.  (d) 1, 2 and 3.  11. complete the given series:
Select the correct answer using the code given below.  (a) 1 and 3 only.  (b) 2 only.  (c) 2 and 3 only.  (d) 1, 2 and 3.  11. complete the given series:
<ul> <li>(a) 1 and 3 only.</li> <li>(b) 2 only.</li> <li>(c) 2 and 3 only.</li> <li>(d) 1, 2 and 3.</li> <li>11. complete the given series:</li> </ul>
<ul><li>(b) 2 only.</li><li>(c) 2 and 3 only.</li><li>(d) 1, 2 and 3.</li><li>11. complete the given series:</li></ul>
<ul><li>(c) 2 and 3 only.</li><li>(d) 1, 2 and 3.</li><li>11. complete the given series:</li></ul>
(d) 1, 2 and 3.  11. complete the given series:
11. complete the given series:
·
2, 14, 98, 286.
a) 1976.
b) 2548.
c) 980.
d) 4802.
12. If 15 Horses eat 15 bags of grain in 15 days, in how many days will one horse eat one
bag of grain:
a) 15 Days.
b) 1/15 Days.
c) 1 Day.
d) 30 Days.
Directions (Qs. 13-16): Read the following passages and answer the questions that
follow. Your answer to these question should be based on passage only.
PASSAGE-1
A team of Canadian and American researchers has reached a step closer to
developing effective treatments to prevent the brain from diseases like Alzheimer's
and Parkinson's by identifying a gene that controls the normal and pathological aging
of neurons in the central nervous system. The team has revealed that the BMI-1
gene, which is responsible for aging of neurons, has been identified in mice and in
humans as well while they were carrying out experiments on mice. The researchers
highlighted the fact that the primary risk factor for diseases like macular
degeneration, Parkinson's and Alzheimer's is aging of neurons.
13. An assumption taken by researchers is that
(a) no significant study focused on the basic molecular mechanisms that control
neuronal aging, has been conducted to date. (b) the BMI-1 gene behaves in a similar fashion in humans as in mice.
(c) manipulating the BMI-1 gene could result in curing people suffering from

Parkinson's or Alzheimer's.

(d) Neurons in the brain age at a slower rate as compared to other cells in the human body.

#### PASSAGE-2

Leonardo da Vinci's masterpiece the Mona Lisa's smile has repeatedly been a subject of many - greatly varying - interpretations. Some have described the smile as both innocent and inviting. Many researchers have tried to explain why the smile is seen so differently by people. Professor Margaret Livingstone of Harvard University has argued that the smile is mostly drawn in low spatial frequencies, and so can best be seen from a distance or with one's peripheral vision. Thus, for example, the smile appears more striking when looking at the portrait's eyes than when looking at the mouth itself. 2.

- 14. Which of the following statements would strengthen Prof Margaret's claim?
  - (a) Different people have different interpretations for the same portrait because of their different mental makeup.
  - (b) A smile may appear to be a neutral expression depending on your mood.
  - (c) Research has proved that different people focus on different areas while viewing a portrait.
  - (d) People try to see themselves in a portrait; what they interpret is dependent on their personal qualities.

## **PASSAGE-3**

Akbari is no architect and his grand plan is no conceptual art project. Based at the prestigious Lawrence Berkeley National Laboratory in California, Akbari is a scientist who has come up with a new way to fight global warming. It could be the easiest solution you've ever heard of. His big idea is based on principles as old as the whitewashed villages that scatter the hills of southern Europe and North Africa. Turn enough of the world's black urban landscape white, he says, and it would reflect enough sunlight to delay global warming, and grant us some precious breathing space in the global struggle to control carbon emissions.

- 15. It can be inferred from the above paragraph that
  - (a) global warming occurs because of poisonous gases like carbon monoxide.
  - (b) the whitewashed villages in the hills of Europe and North Africa were meant to counter global warming.
  - (c) global warming probably occurs due to the earth absorbing sunlight.
  - (d) global warming could spell doom for all of us on this earth.

#### **PASSAGE-4**

In modern times, the meaning of the word metaphysics has become confusing

	because of popular beliefs that are really unrelated to metaphysics or ontology per	
	se, viz. esotericism and occultism. Esotericism and occultism, in their many forms,	
	are not concerned with inquiries into first principles or the nature of being, though	
	they do tend to proceed on the metaphysical assumption that all being is "one".	
	16. It can be inferred that	
	(a) Esotericism and Occultism explain the meaning of metaphysics with a lot of	
	confusion.	
	(b) Esotericism does not believe in the first principle that metaphysics believes in.	
	(c) Metaphysics is concerned with inquiries into the nature of being.	
	(d) Many forms of esotericism are related to metaphysics.	
17	What should come in the place of question mark in the following letter number	
combir	nation:	
	F6, H8, J 10, L12?	
	a) N 15.	
	b) 0 14.	
	c) N 14.	
	d) O 13.	
18. T	The deepest lake in Kashmir is	
	(a) Dal.	
	(b) Wular.	
	(c) Manasbal.	
	(d) Anchar.	
19.	Vishav, Rambiara and Romshi are left bank tributaries of the river:	
	(a) Shyok.	
	(b) Jhelum.	
	(c) Sind.	
	(d)Chenab.	
20.	The Lake in J&K that lies between India and China border is:	
	(a) Salt Lake.	
	(b) Pangong Lake.	
	(c) Tso Moriri Lake.	
	(d) Wular Lake.	
21.	Vyeth, Hydaspes, Behat on Koshur Derya are the other names of:-	
	(a) River Jhelum.	
	(b) River Indus.	
	(c) River Chenab.	
	(d) River Shvok.	

22.	Which of the following pass joins Poonch and the Uri sector:	
	(a) Baramulla Pass.	
	(b) Hajipir Pass.	
	(c) Banihal Pass.	
	(d) None of these.	
23.	Which of the following companies is awarded with 690 MW Rattle Project in the state of	of
	Jammu and Kashmir?	
	(a) Reliance Power.	
	(b) GVK Development Project.	
	(c) TCS.	
	(d) None of the above.	
24.	In which of the following districts of Jammu and Kashmir their first Wind power project	
	will be installed by the Jammu and Kashmir Energy Development Department?	
	(a) Doda.	
	(b) Reasi.	
	(c) Kathua.	
	(d) Samba.	
25.	The main purpose of the Super Computer is:	
	a) High Speed Calculations.	
	b) Weather Forecasting.	
	c) Data Retrieval Operations.	
	d) None of the above.	
26.	An Electrical Pathway within a Computer is called:	
	a) Circuit.	
	b) Line.	
	c) Bus.	
	d) Track.	
27.	CPU stands for:	
	a) Computer Processing Unit.	$\neg$
	b) Central Processing Unit.	
	c) Communication Processing Unit.	
	d) All of the above.	
28.	Trojan Horse is a:	
	a) Animal.	
	b) Sea Bird.	
	c) Malware.	

d) No	one of the above.	
29. Phish	hing is related to:	
a) Ca	atching Cold Water Fishes.	
b) Cy	yber Crime.	
c) Ind	door Game.	
d) Al	ll of the above.	
30. WiFi	i stands for:	
a) W	/ide Frequency.	
b) W	Vireless Fidelity.	
c) W	/orld of Fiction.	
d) W	Vorld of Futures.	
31. Whic	ch of these is not a symptom of Pulmonary Tuberculosis:	
i) F	Fever.	
) (j	Night Sweats.	
k) l	Loss of Weight.	
۱ (۱	Nausea/vomiting.	
32. Tube	erculin test is done on:	
i) S	Skin.	
j) E	Blood.	
-	Sputum.	
۱ (۱	None of these.	
33. All aı	re first line drugs for tuberculosis except:	
i) I	Isoniazid.	
	Rifampicin.	
k) [	Moxifloxacim.	
-	Pyrizanamide.	
	R Tuberculosis is an infection carved by bacteria resistant to:	
•	Isoniazid.	
	Rifampin.	
,	Both A and B.	
•	None of these.	
	s transmitted through:	
•	Sexual Contact.	
• • • • • • • • • • • • • • • • • • • •	Air.	
•	Blood.	
1) 4	All of above	

36.	Wh	nich of the following is a protozoal infection:	
	i)	Dengue.	
	j)	Poliomyelitis.	
	k)	Malaria.	
	I)	None of these.	
37.	All	can help in stopping transmission of Covid except:	
	i)	Social Distancing.	
	j)	Hand Hygeine.	
	k)	Wearing Masks.	
	I)	None of these.	
38.	lst	dose of BCG vaccine is given at:	
	i)	Birth.	
	j)	1 Week.	
	k)	2 Weeks.	
	I)	4 Weeks.	
39.	Est	imated prevalence of latent Tuberculosis infection in India is:	
	i)	5%.	
	j)	10%.	
	k)	40%.	
	l)	80%.	
40.	Fol	lowing adverse event is a Contraindication of rechallenge:	
	i)	Hepatotoxiaty.	
	j)	Vomiting.	
	k)	Drug Rash.	
	l)	Drug Induced Thrombocytopenia.	
41.	Fol	lowing drug should be given on empty stomach for better bioavailability:	
	j)	Isoniazid.	
	k)	Rifampicin.	
	I)	Ethambutol.	
	m)	Both (a) and (b).	
42.	Pyr	ndoxinc deficiency can occur d/t:	
	i)	Isoniazid.	
	j)	Rifampicin.	
	k)	Ethambutol.	
	I)	Pyrizammide.	

43.	DO	TS stands for:	
	i)	Direct Occurring Treatment Service.	
	j)	Directly Observed Treatment Strategy.	
	k)	Directly Observed Treatment Short Course.	
	I)	Directly Observed Treatment Services.	
44.	ВС	G Vaccine is administered to the infant at:	
	i)	Birth.	
	j)	6 months.	
	k)	9 months.	
	I)	1 year.	
45.	RN	TCP was started in:	
	i)	1988.	
	j)	1990.	
	k)	1992.	
	I)	1994.	
46.	Ар	atient with Tuberculosis should avoid which foods:	
	i)	Orange, Mango.	
	j)	Red Meat.	
	k)	Caffeinated Drinks.	
	I)	Both B & C.	
47.	For	completion of treatment of a patient with simple TB, the amount of money a and	
	DO	TS provider gets:	
	i)	500.	
	j)	1000.	
	k)	1500.	
	I)	2000.	
48.	The	e theme of TB day 2020 was:	
	i)	It's time.	
	j)	Reach the 3 Million: reach, treat, cure everyone.	
	k)	Wanted: Leaders for a TB-free World.	
	I)	Unite to end TB.	
49.	ТВ	Day is celebrated on:	
	i)	24 <sup>th</sup> April.	
	j)	24 <sup>th</sup> March.	
	k)	24 <sup>th</sup> May.	
	I)	24 <sup>th</sup> August.	

50. W	hich of the following Actors suffered and survived Tuberculosis:	
i	Dharmendra.	<u></u>
j	Shah Rukh Khan.	
k	) Deepika Padukone.	
1)	Amitabh Bachan.	
51. R	NTCP was revised to National Tuberculosis Elimination Programme:	
i)	2016.	
j	2017.	
k	) 2018.	
IJ	2020.	
52. A	IDS stands for:	
i)	Acute Inflammatory Demyelination Syndrome.	
j	Acquired Inflammatory Deficiency Syndrome.	
k	) Acquired Immune Deficiency Syndrome.	
I)	Acute Immune Deficiency Syndrome.	
53. W	hich of the following is a component of Health:	
i)	Social.	
j	Mental.	
k	) Physical.	
I)	All of the above.	
54. W	ho is the current Minister of Ministry of Health & Family Welfare:	
i)	Harsh Mohan.	
j	Harsh Vardhan.	
k	) Gh. Nabi Azad.	
I)	None of these.	
55. N	lode of transmission of Covid-19 is:	
i	Food.	
j	Sewage.	
k	) Sexual contact.	
IJ	None of these.	
56. P	olio is caused by:	
i	Virus.	
j	Bacteria.	
k	) Fungi.	
1)	None of these.	

57. National Health Mission Programme was launched by GOI in:	
i) 2012.	
j) 2013.	
k) 2014.	
l) 2015.	
58. Who is the Brand Ambassador of Pulse Polio drive in India:	
i) Amitabh Bachan	
j) Shah Rukh Khan.	
k) Sachin Tendulkar.	
l) Virat Kohli.	
59. Which of the following is not a Fundamental Duty as enshrined in the Constitution of	
India:	
(a) To develop scientific temper	
(b) To promote brotherhood and strive to be a good human being	
(c) To respect the ideals of the Constitution	_
(d) To develop spirit of enquiry.	
60. With reference to 73rd amendment act of the constitution, a Gram Sabha is a body	
consisting of:	
(a) All the adult population of the villages under the Panchayat.	
(b) The whole population of the villages under the Panchayat other than Children of less	
than five years.	_
(c) The registered voters of the villages under the Panchayat.	
(d) None of the above.	

# **Rough Work Sheet**

## Series D

1. What should come in the place of question mark in the following letter number combination	on:
F6, H8, J 10, L12?	
a) N 15.	
b) 0 14.	
c) N 14.	
d) O 13.	
2. The deepest lake in Kashmir is	
(a) Dal.	
(b) Wular.	
(c) Manasbal.	
(d) Anchar.	
3. Vishav, Rambiara and Romshi are left bank tributaries of the river:	
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be installed by the Jammu and Kashmir Energy Development Department?	
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15. WI	hich of these is not a symptom of Pulmonary Tuberculosi	s:
	m) Fever.	
	n) Night Sweats.	
	o) Loss of Weight.	
4.0	p) Nausea/vomiting.	
16.		
	m) Skin.	
	n) Blood.	
	o) Sputum.	
	p) None of these.	
17.		
	m) Isoniazid.	
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	p) Pyrizanamide.	
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19.	TB is transmitted through:	
	m) Sexual Contact.	
	n) Air.	
	o) Blood.	
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o)	9 months.	
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m) 1988.	
n) 1990.	
o) 1992.	
p) 1994.	
30. A patient with Tuberculosis should avoid which foods:	
m) Orange, Mango.	
n) Red Meat.	
o) Caffeinated Drinks.	
p) Both B & C.	h
31. For completion of treatment of a patient with simple TB, t	the amount of money a and
DOTS provider gets:	
m) 500.	
n) 1000.	
o) 1500.	
p) 2000.	
32. The theme of TB day 2020 was:	
m) It's time.	
n) Reach the 3 Million: reach, treat, cure everyone.	
o) Wanted: Leaders for a TB-free World.	
p) Unite to end TB.	
33. TB Day is celebrated on:	
m) 24 <sup>th</sup> April.	
n) 24 <sup>th</sup> March.	
o) 24 <sup>th</sup> May.	
p) 24 <sup>th</sup> August.	
34. Which of the following Actors suffered and survived Tube	rculosis:
m) Dharmendra.	
n) Shah Rukh Khan.	
o) Deepika Padukone.	
p) Amitabh Bachan.	
35. RNTCP was revised to National Tuberculosis Elimination P	rogramme:
m) 2016.	
n) 2017.	
o) 2018.	
n) 2020	

36. AIDS	S stands for:	
m)	Acute Inflammatory Demyelination Syndrome.	
n)	Acquired Inflammatory Deficiency Syndrome.	
o)	Acquired Immune Deficiency Syndrome.	
p)	Acute Immune Deficiency Syndrome.	
37. Whi	ch of the following is a component of Health:	
m)	Social.	
n)	Mental.	
o)	Physical.	
p)	All of the above.	
38. Who	is the current Minister of Ministry of Health & Family Wel	fare:
m)	Harsh Mohan.	
n)	Harsh Vardhan.	
o)	Gh. Nabi Azad.	
p)	None of these.	
39. Mod	de of transmission of Covid-19 is:	
m)	Food.	
n)	Sewage.	
o)	Sexual contact.	
p)	None of these.	
40. Polic	o is caused by:	
m)	Virus.	
n)	Bacteria.	
o)	Fungi.	
p)	None of these.	
41. Nati	onal Health Mission Programme was launched by GOI in:	
m)	2012.	
n)	2013.	
o)	2014.	
p)	2015.	
42. Who	is the Brand Ambassador of Pulse Polio drive in India:	
m)	Amitabh Bachan.	
n)	Shah Rukh Khan.	
o)	Sachin Tendulkar.	
p)	Virat Kohli.	

43. Which of the following is not a Fundamental Duty as enshrined in the Constitution of
India:
(a) To develop scientific temper
(b) To promote brotherhood and strive to be a good human being
(c) To respect the ideals of the Constitution
(d) To develop spirit of enquiry.
44. With reference to 73rd amendment act of the constitution, a Gram Sabha is a body consisting of:
(a) All the adult population of the villages under the Panchayat.
(b) The whole population of the villages under the Panchayat other than Children of less than five years.
(c) The registered voters of the villages under the Panchayat.
(d) None of the above.
45. A meteorite is:
(a) a comet with a bright gaseous tail.
(b) a piece of matter which burns and gets converted into ash as it enters the Earth's
atmosphere from outer space.
(c) a piece of matter which does not burn completely and reaches the surface of the earth.
(d)None of the above.
46. Which of the following climate type does not enjoy rainfall all-round the year:
(a) Steppe type.
(b) China type.
(c) Laurentian type.
(d) British type.
17. Which of the following are you likely to find in the Vale of Kashmir:
(a) Chars.
(b) Karewas.
(c) Bils.
(d) Bugyals.
18. Consider the following pairs:
Population
Interaction
Feature
1. Mutualism: Both the species are benefited
2. Competition: Both the species are harmed
3. Commensalism: One species is harmed and the other is unaffected
1. Amongalism: One species is benefited and the other is unaffected

Which of the pairs given above is/are correctly matched?

(b) 3 and 4 only. (c) 1, 2 and 3 only. (d) 1, 2, 3 and 4.  49. Which of the following are the sources of renewable energy?  1. Geo-thermal energy. 2. Biofuels. 3. Biomass energy. 4. Nuclear energy. Select the correct answer using the codes given below (a) 1 and 3 only. (b) 1, 2 and 3 only. (c) 2 and 4 only. (d) 1, 2, 3 and 4.  50. Which of the following is known as the Rain forests of the oceans? (a) Mangroves. (b) Coral reefs. (c) Sea grass. (d) Oysters.  51. Which of the following pollutants are present in the motor vehicle exhaust emissions? 1. Carbon Dioxide. 2. Carbon Monoxide. 3. Nitrous Oxide. 4. Hydrocarbons.  Select the correct answer using the code given below: (a) 1, 2 and 4 only. (b) 2, 3 and 4 only. (c) 1 and 3 only. (d) 1, 2, 3 and 4.  52. Which of the following gases is/are associated with acid rain: 1. Sulphur Dioxide. 2. Nitrogen Oxides. 3. Methane. 4. Ozone.  Select the correct answer using the code given below. (a) 1 and 2 only. (b) 1, 2 and 3 only. (c) 2, 3 and 4 only. (d) 1, 2) and 3 only. (e) 2, 3 and 4 only.	(a) 1 and 2 only.	
(d) 1, 2, 3 and 4.  49. Which of the following are the sources of renewable energy?  1. Geo-thermal energy. 2. Biofuels. 3. Biomass energy. 4. Nuclear energy.  Select the correct answer using the codes given below (a) 1 and 3 only. (b) 1, 2 and 3 only. (c) 2 and 4 only. (d) 1, 2, 3 and 4.  50. Which of the following is known as the Rain forests of the oceans? (a) Mangroves. (b) Coral reefs. (c) Sea grass. (d) Oysters.  51. Which of the following pollutants are present in the motor vehicle exhaust emissions? 1. Carbon Dioxide. 2. Carbon Monoxide. 3. Nitrous Oxide. 4. Hydrocarbons.  Select the correct answer using the code given below: (a) 1, 2 and 4 only. (b) 2, 3 and 4 only. (c) 1 and 3 only. (d) 1, 2, 3 and 4.  52. Which of the following gases is/are associated with acid rain: 1. Sulphur Dioxide. 2. Nitrogen Oxides. 3. Methane. 4. Ozone.  Select the correct answer using the code given below. (a) 1, and 2 only. (b) 1, 2 and 3 only.	(b) 3 and 4 only.	
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<ul> <li>(b) 2, 3 and 4 only.</li> <li>(c) 1 and 3 only.</li> <li>(d) 1, 2, 3 and 4.</li> <li>52. Which of the following gases is/are associated with acid rain: <ol> <li>Sulphur Dioxide.</li> <li>Nitrogen Oxides.</li> <li>Methane.</li> <li>Ozone.</li> </ol> </li> <li>Select the correct answer using the code given below. <ol> <li>(a) 1 and 2 only.</li> <li>(b) 1, 2 and 3 only.</li> </ol> </li> </ul>	Select the correct answer using the code given below:	
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2. Nitrogen Oxides. 3. Methane. 4. Ozone. Select the correct answer using the code given below. (a) 1 and 2 only. (b) 1, 2 and 3 only.	52. Which of the following gases is/are associated with acid rain:	
3. Methane. 4. Ozone. Select the correct answer using the code given below. (a) 1 and 2 only. (b) 1, 2 and 3 only.	1. Sulphur Dioxide.	
4. Ozone. Select the correct answer using the code given below.  (a) 1 and 2 only.  (b) 1, 2 and 3 only.	2. Nitrogen Oxides.	
Select the correct answer using the code given below.  (a) 1 and 2 only.  (b) 1, 2 and 3 only.	3. Methane.	
(a) 1 and 2 only. (b) 1, 2 and 3 only.		
(b) 1, 2 and 3 only.		
(d) 1 and 4 only.		

53. Which of the following are the sources of Methane?	
1. Biomass burning.	
2. Landfills.	
3. Rice fields.	
4. Coal mining.	
5. Permafrost.	
Select the correct answer using the code given below:	
(a) 3 and 4 only.	
(b) 1, 3 and 4 only.	
(c) 1, 2 and 5 only.	
(d) 1, 2, 3, 4 and 5.	
54. Which among the following regions in India is/are biodiversity hotspots:	
1. Eastern Ghats.	
2. Eastern Himalayas.	
3. Nicobar Islands.	
Select the correct answer using the code given below.	
(a) 1 and 3 only.	
(b) 2 only.	
(c) 2 and 3 only.	
(d) 1, 2 and 3.	
55. complete the given series:	
2, 14, 98, 286.	
a) 1976.	
b) 2548.	
c) 980.	
d) 4802.	
56. If 15 Horses eat 15 bags of grain in 15 days, in how many days will one horse eat one k	oag of
grain:	
a) 15 Days.	
b) 1/15 Days.	
c) 1 Day.	
d) 30 Days.	

Directions (Qs. 57-60): Read the following passages and answer the questions that follow. Your answer to these question should be based on passage only.

## PASSAGE-1

A team of Canadian and American researchers has reached a step closer to developing effective treatments to prevent the brain from diseases like Alzheimer's and Parkinson's by identifying a gene that controls the normal and pathological aging

of neurons in the central nervous system. The team has revealed that the BMI-1 gene, which is responsible for aging of neurons, has been identified in mice and in humans as well while they were carrying out experiments on mice. The researchers highlighted the fact that the primary risk factor for diseases like macular degeneration, Parkinson's and Alzheimer's is aging of neurons.

- 57. An assumption taken by researchers is that
- (a) no significant study focused on the basic molecular mechanisms that control neuronal aging, has been conducted to date.
- (b) the BMI-1 gene behaves in a similar fashion in humans as in mice.
- (c) manipulating the BMI-1 gene could result in curing people suffering from Parkinson's or Alzheimer's.
- (d) Neurons in the brain age at a slower rate as compared to other cells in the human body.

#### **PASSAGE-2**

Leonardo da Vinci's masterpiece the Mona Lisa's smile has repeatedly been a subject of many - greatly varying - interpretations. Some have described the smile as both innocent and inviting. Many researchers have tried to explain why the smile is seen so differently by people. Professor Margaret Livingstone of Harvard University has argued that the smile is mostly drawn in low spatial frequencies, and so can best be seen from a distance or with one's peripheral vision. Thus, for example, the smile appears more striking when looking at the portrait's eyes than when looking at the mouth itself. 2.

- 58. Which of the following statements would strengthen Prof Margaret's claim?
- (a) Different people have different interpretations for the same portrait because of their different mental makeup.
- (b) A smile may appear to be a neutral expression depending on your mood.
- (c) Research has proved that different people focus on different areas while viewing a portrait.
- (d) People try to see themselves in a portrait; what they interpret is dependent on their personal qualities.

## **PASSAGE-3**

Akbari is no architect and his grand plan is no conceptual art project. Based at the prestigious Lawrence Berkeley National Laboratory in California, Akbari is a scientist who has come up with a new way to fight global warming. It could be the easiest solution you've ever heard of. His big idea is based on principles as old as the whitewashed villages that scatter the hills of southern Europe and North Africa. Turn enough of the world's black urban landscape white, he says, and it would reflect

enough sunlight to delay global warming, and grant us some precious breathing space in the global struggle to control carbon emissions.

- 59. It can be inferred from the above paragraph that
- (a) global warming occurs because of poisonous gases like carbon monoxide.
- (b) the whitewashed villages in the hills of Europe and North Africa were meant to counter global warming.
- (c) global warming probably occurs due to the earth absorbing sunlight.
- (d) global warming could spell doom for all of us on this earth.

#### **PASSAGE-4**

In modern times, the meaning of the word metaphysics has become confusing because of popular beliefs that are really unrelated to metaphysics or ontology per se, viz. esotericism and occultism. Esotericism and occultism, in their many forms, are not concerned with inquiries into first principles or the nature of being, though they do tend to proceed on the metaphysical assumption that all being is "one".

- 60. It can be inferred that
- (a) Esotericism and Occultism explain the meaning of metaphysics with a lot of confusion.
- (b) Esotericism does not believe in the first principle that metaphysics believes in.
- (c) Metaphysics is concerned with inquiries into the nature of being.
- (d) Many forms of esotericism are related to metaphysics.