PART-A

Antonyms

Directions: Each item in this section consists of a sentence with an underlined word followed by four options. Select the option that is opposite in meaning to the underlined word and mark your response in your Answer Sheet accordingly.

1	10-	His	conv	erant	inns	are a	hura	100.14	surd.
а			COLE !	C-0-1149.V	CALLET	WYC 1	TANK TEL	rs at	muru.

- (a) farcical
- (b) foolish
- (c) preposterous
- (d) rational

2. The politician was a dissident.

- (a) agitator
- (b) rebel
- (c) conformist
- (d) revolutionary

He wrote an incisive article on corruption in politics.

- (a) vague
- (b) penetrating
- (c) trenchant
- (d) precise

4. Rakesh is an eccentric prodigal.

- (a) extravagant
- (b) profligate
- (c) wasteful
- (d) thrifty

Friendship is always reciprocal.

- (a) mutual
- (b) one-sided
- (c) shared
- (d) corresponding

6. The debate was highly stimulating.

- (a) arousing
- (b) invigorating
- (e) boring
- (d) stirring

7. Malaria is a widespread disease.

- (a) endemic
- (b) pervasive
- (c) common
- (d) rare

The bill received a vehement resistance from the opposition party in the Parliament.

- (a) animated
- (b) apathetic
- (c) fervent
- (d) vigorous

9. He has been obstinate since his childhood.

- (a) stubborn
- (b) dogged
- (c) amenable
- (d) rigid

10. Mahatma Gandhi was one of the mest prominent leaders of his times.

- (a) renowned
- (b) distinguishable
- (c) eminent
- (d) unknown

Synonyms

Pirections: Each item in this section consists of a sentence with an underlined word followed by four pittings: Select the option that is nearest in meaning to the underlined word and mark your response in our Answer Sheet accordingly.

- 1. He is always anxious.
 - (a) worried
 - (b) dispassionate
 - (c) sluggish
 - (d) torpid
- 12. The poems of Kabir are ecstatic in nature.
 - (a) efficacious
 - (b) eerie
 - (c) rapturous
 - (d) reverential
- Ravi loves seclusion. Therefore, he lives in the mountains.
 - (a) nature
 - (b) scripture
 - (c) seafaring
 - (d) solitariness
- 14. Hitler was a despot.
 - (a) conservative
 - (b) dictator
 - (c) passionate
 - (d) monstrous
- The imagery used in the poem is vivid.
 - (a) lively
 - (b) inert
 - (c) ebullient
 - (d) caustic

- A human being is always vulnerable to other human beings.
 - (a) resilient
 - (b) elastic
 - (c) defenceless
 - (d) crude
- 17. His language is political and vitriolic.
 - (a) imaginative
 - (b) sprightly
 - (e) vivacious
 - (d) abusive
- 18. The Managing Director of the company declared that he is <u>broke</u> and there is a need to seek support from the government.
 - (a) bankrupt
 - (b) rich
 - (c) making profit
 - (d) having liabilities
- 19. He loves doing nasty things.
 - (a) nice
 - (b) fastidious
 - (c) foul
 - (d) finicky
- He could not <u>muster</u> courage to speak the truth before his friend.
 - (a) injure
 - (b) spoil
 - (c) gather
 - (d) maim

Spotting Errors

Directions: Each item in this section has a sentence with three underlined parts labelled (a), (b) and Read each sentence to find out whether there is any error in any underlined part and indicate your respoint the Answer Sheet against the corresponding letter i.e., (a) or (b) or (c). If you find no error, your responsibility be indicated as (d).
--

	(4)		(b)		(c)	(d)					
22.	Most of us who are old	er compe	titive runn	ers are not al							
	(a)				(b)	ocit at the same spec					
	as we do when we were	30. No	error								
	(6)		Đ.								
23,	Work hard lest you do	not fail.	No error								
	(n) (b)	(c)	(d)								
24.	The Eastern Ghats are	home of	2600 plant	species and t	his habitat frag	mentation					
		(a)			(b)						
	can pose a serious threa	t to ende	emic plants.	No error							
i in	(c)			(d)							
25.	Turbidity current is a fast-moving current that sweeps down submarine canyons,										
	(n)				(b)						
	carrying sand and mud	nto the	leep sea. N	lo error							
	(e)			(d)							
6.	Every one of the boys lo		e. No error								
22 //	(a) (b)	(e)	(d)								
7.	Neither praise nor blame			n. No error							
	(a)	(b)	(e)	(d)							
N	Many a man has succum (a) (b)	bed to t			Ė						
v			(e)	(d)							
0 4	A time slot of fifteen minu (a)	ites are		each speake	No error						
	He asked whether either		(b)	(e)	(d)						
63											

Idioms and Phrases

Directions: Given below are some idioms/phrases followed by four alternative meanings to each. Choose the response (a), (b), (c) or (d) which is the most appropriate expression.

31. Be over the hill

- (a) To be on a mountain top
- (b) To travel in the jungle
- (c) To be too old to do things
- (d) To do something in the most complete way

32. Bite your tongue

- (a) To stop yourself from saying something because it would be better not to
- (b) To bite off your tongue while eating
- (c) To feel sorry
- (d) To ask someone something that you want

33. Turn a blind eye

- (a) To run away
- (b) To begin to behave in a more positive manner
- (c) To change a situation
- (d) To choose to ignore behaviour that you know is wrong

34. Yellow journalism

- (a) Paid storytelling
- (b) Government reports published on yellow coloured papers
- (c) Writings in newspapers that try to influence people's opinion by using strong language and false information
- (d) Journalism which agrees completely with the policies of the governments and capitalists

35. To be in seventh heaven

- (a) To fly in the air
- (b) To be extremely happy
- (c) To be completely alone
- (d) To visit a place which is in the list of the seven wonders of the world

Fill in the blanks

Directions: Each of the following mentences in this section has a blank space and four words or group of words given after the sentence. Select the word or group of words you consider most appropriate for the blank space and indicate your response on the Answer Sheet accordingly.

that the Assembly elections five States will be held from November 12 December 7.	in protest against the construction of a new
(a) pronounced	(b) sitting
(b) announced	(c) staging
(e) promulgated	(d) standing
(d) issued	39. It is common for patients to stop
7. The victims were fruit vendors and they were going in an auto when they an accident on the way. (a) met with	(d) taking 40. A four-year-old girl got a new lease of life after doctors at a hospital a cancerous tumour from one of her kidneys.
(b) ran into	(a) rejuvenated
(c) experienced (d) heard	(b) removed (c) displaced

(d)

replaced

Ordering of words in a sentence

pirections: Each of the following items in this section consists of a sentence, the parts of which have been jumbled. These parts have been labelled P, Q, R and S. Given below each sentence are four sequences. namely (a), (b), (c) and (d). You are required to re-arrange the jumbled parts of the sentence and mark your response accordingly.

we are deeply concerned					and will continue to		
		R			S		
(a)	R	Q	s	P			
(b)	S	P	Q	R			
(e)	S	P	R	Q			
(d)	P	R	s	Q			

		P			Q
usir	ıg lav	ender	oil on	their skin	but patients are cautioned against
			R		S
(a)	R	Q	P	S	
(b)	S	Q	P	R	
(c)	Q	P	s	R	
(d)	R	P	s	Q	

			P		the plea filed through the advocate				
	online is illegal and			nd sub	submitted that the sale of drugs and prescription medicines				
		R			S				
(a)	R (2 1	S P					
0	ьэ (2 5	3 1	R P					
6	1 () I		S P					
(6	() I	· F	U S	S Q					
- hi	ıman	s and	mach	ines have	co-existed dating back to the invention of				
-			P		co-existed dating back to the invention of Q				
th	e pot	or's w	heel i	n ancien	t Mesopotamia at the physical level for millennia				
			R		S				
(a)	R	S	P	Q					
(b)	Q	S	P	R					
(c)	Q	R	P	S					
(d)	P	S	Q	R					
a se	ll-off	s US	Trea	sury yiel	ds surged to multi-year highs				
		P			Q				
on r	bust	econo	mic d	ata g	lobal markets also witnessed				
		R			S				
		S	Q	P					
(a)	R								
(a) (b)	R P	Q	s	R					

Comprehension

Directions: In this section you have a short passage. After the passage, you will find some items based on the passage. First read the passage and then answer the items based on it. You are required to select your unswers based on the contents of the passage and opinion of the author only.

Studies serve for delight, for ornament, and for ability. Their chief use for delight, is in privateness and retiring; for ornament, is in discourse; and for ability, is in the judgment, and disposition of business. For expert men can execute, and perhaps judge of particulars, one by one; but the general counsels, and the plots and marshalling of affairs, come best from those that are learned. To spend too much time in studies is sloth; to use them too much for ornament, is affectation; to make judgment wholly by their rules, is the humor of a scholar. They perfect nature, and are perfected by experience: for natural abilities are like natural plants, that need pruning, by study; and studies themselves do give forth directions too much at large, except they be bounded in by experience. Crafty men condemn studies, simple men admire them, and wise men use them; for they teach not their own use; but that is a wisdom without them, and above them, won by observation. Read not to contradict and confute; nor to believe and take for granted; nor to find talk and discourse; but to weigh and consider.

- 46. According to the author, why should one study?
 - (a) To gather information about the world
 - (b) To pass the time in a creative way
 - (c) For pleasure, enhanced capability and holistic growth
 - (d) To become only worldly wise
- 47. Why does the author not recommend too much of studies?
 - (a) Because it reflects idleness
 - (b) Because it requires too much money
 - (c) Because it is dangerous for the health of the mind
 - (d) Because it makes men crafty

- 48 According to the author, how can the studies be perfected?
 - (a) By reflection
 - (b) By application
 - (c) By conversation
 - (d) By experience
- 49. Which kind of human beings denounce studies?
 - (a) Innocent
 - (b) Cunning
 - (c) Stupid
 - (d) Wise
 - 50. According to the author, one should read to
 - (a) only argue
 - (b) only believe
 - (c) evaluate and understand
 - (d) preach and believe

PART-B

- 51. Lithosphere consists of
 - (a) upper and lower mantle.
 - (b) crust and core.
 - (c) crust and uppermost solid mantle.
 - (d) mantle and core.
- 52. The principal component(s) of Nehru-Mahalanobis strategy of economic development was/were
 - Restructuring economic dependency on metropolitan capitalism into independent economic development.
 - Transition from semi-feudal agriculture to capitalist farming.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 53. The provisions of the Fifth Schedule of the Constitution of India shall not apply to the administration and control of the Scheduled Areas and Scheduled Tribes in
 - 1. Chhattisgarh, Jharkhand and Odisha
 - 2. Assam and Tripura
 - 3. Meghalaya and Mizoram

Select the correct answer using the code given below:

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

- 54. Consider the following statements related to Dayanand's idea of social reform:
 - Dayanand's reform envisaged a social order, where different castes performed functions suitable to their status determined by merit.
 - Dayanand's 'robust Vedic counterpart' challenged the masculine West that had enalayed the Aryavarta.

Which of the statement/s given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 55. Consider the following statements concerning the American War of Independence:
 - The Americans raised the slogan, 'No taxation without representation'.
 - The American merchants resorted to the boycott of the British products.

Select the correct answer using the code given below:

- (a) Lonly
- (b) 2 only
- (e) Both 1 and 2
- (d) Neither 1 nor 2
- 56. The first UDAY (Utkrisht Double Decker Air-Conditioned Yatri) Express train runs between
 - (a) Delhi and Kalka
 - (b) Bengaluru and Coimbatore
 - (c) Chennai and Visakhapatnam
 - (d) Chennai and Bengalura

- 57. Who among the following were selected for the Rajiv Gandhi Khel Ratna Award 2019?
 - (a) Vijay Kumar and Yogeshwar Dutt
 - (b) Sakshi Malik and Jitu Rai
 - (c) Virat Kohli and Mirabai Chanu
 - (d) Bajrang Punia and Deepa Malik
- 58. Betel leaf of which one of the following States has been accorded a GI tag recently?
 - (a) Andhra Pradesh
 - (b) Madhya Pradesh
 - (c) Kerala
 - (d) Mizoram
- 59. SAMARTH is a flagship skill development scheme of which one of the following Ministries?
 - (a) Ministry of Textiles
 - (b) Ministry of Agriculture and Farmers Welfare
 - (c) Ministry of Skill Development and Entrepreneurship
 - (d) Ministry of Human Resource Development
- 60. CORAS is a separate Commando Unit of
 - (a) National Security Guard
 - (b) Central Industrial Security Force
 - (c) Railway Protection Force
 - (d) Central Reserve Police Force

- 61. Which one of the following statements is not true about Ijarah system?
 - (a) It was a system of revenue farming.
 - (b) It encouraged the role of middlemen.
 - (c) Under this system, land revenue was fixed for the peasant.
 - (d) The ijaradar paid a fixed amount to the State treasury.
- During the Swadeshi movement, a National College was started in Calcutta under the principalship of
 - (a) Rabindranath Tagore
 - (b) Aurobindo Ghosh
 - (c) Rajani Kant Sen
 - (d) Syed Abu Mohammad
- 63. The ruins of Vijayanagara (Hampi) were brought to public light in the year 1800 by the following British surveyor and engineer:
 - (a) James Prinsep
 - (b) Colin Mackenzie
 - (c) James Rennell
 - (d) Charles Metcalfe
- 64. Which country among the following was not a part of the Third Coalition against Napoleon?
 - (a) Russia
 - (b) Prussia
 - (c) Sweden
 - (d) France
- 65. Which one of the following pairs of travellers and their nationality is not correctly matched?
 - (a) Ibn Battuta Moroccan
 - (b) Duarte Barbosa Portuguese
 - (c) Jean Baptiste Tavernier Dutch
 - (d) Niccolao Manucci Venetian

- World Humanitarian Day is celebrated on 66. Compared to audible sound waves, ultrasound 71. 26th June (n) waves have 17th July (b) (a) higher speed. 19th August (c) (b) higher frequency. 27th September (c) longer wavelength. (d) both higher speed and frequency. (d) Which one of the following is the name given 72. 67. A rigid body of mass 2 kg is dropped from a to the lander of Chandrayaan-2? stationary balloon kept at a height of 50 m (a) Vigvan from the ground. The speed of the body when (b) Anusandhan it just touches the ground and the total energy (c) Pragyan when it is dropped from the balloon are (d) Vikram respectively (acceleration due to gravity = 9.8 m/s2) Along with Pranab Mukherjee, how many 980 m.s-1 and 980 J 68. (a) more persons were conferred the Bharat √980 m.s-1 and √980 J (b) Ratna Award in the year 2019? 980 m.s⁻¹ and √980 J (c) (a) One √980 m.s⁻¹ and 980 J (d) (b) Two (c) Three 73. The temperature of a place on one sunny day (d) Four is 113 in Fahrenheit scale. The Kelvin scale reading of this temperature will be 69. Aishwarya Pissay excels in which one of the (a) 318 K following sports? (b) 45 K Badminton (a) (c) 62.8 K (b) Boxing 335.8 K (d) Motorsports (c) (d) Chess 74. Radiations coming from the Sun are mostly in the form of Which one of the following films was adjudged 70.
 - (a) Bulbul Can Sing

as the Best Feature Film in the 66th National

(b) Hellaro

Film Awards?

- (c) Badhaai Ho
- (d) Uri

(a) light only.

infrared.

(b)

(e)

(d)

light and long wavelength infrared.

light and short wavelength infrared.

both short and long wavelength

- 75. Which of the following are the characteristics 80.
 - They are elastic waves.
 - 2. They can also move in vacuum.
 - 3. They have electric and magnetic components which are mutually perpendicular.
 - They move with a speed equal to 3 lakh meters per second.

Select the correct answer using the code given below :

- (a) 1, 2, 3 and 4
- (b) 1, 2 and 4 only
- (c) 2 and 3 only
- (d) 3 and 4 only
- 76. Which one of the following is a non-metallic mineral?
 - (a) Iron
 - (b) Mica
 - (c) Copper
 - (d) Bauxite
- 77. Which one of the following is a Rabi crop in the Northern States of India?
 - (a) Rice
 - (b) Bajra
 - (c) Barley
 - (d) Ragi
- The rivers of North-West Europe are good examples of
 - (a) parallel pattern of drainage.
 - (b) radial pattern of drainage.
 - (c) barbed pattern of drainage.
 - (d) trellis pattern of drainage.
- 79. Which one of the following ocean currents is a cold current?
 - (a) South Atlantic Drift
 - (b) Mozambique Current
 - (e) East Australian Current
 - (d) Caribbean Current

- 80. Paradeep Port is located on the delta of river
 - (a) Rihand
 - (b) Ganga
 - (c) Mahanadi
 - (d) Baitarani
- 81. Which one of the following hypothesis/theory explains the origin of the universe?
 - (a) Nebular hypothesis
 - (b) Binary theory
 - (c) Big Bang theory
 - (d) Planetesimal hypothesis
- 82. Which among the following struggles, based on Gandhi's philosophy of Satyagraha, involved the industrial working class?
 - (a) Champaran
 - (b) Kheda
 - (c) Ahmedahad
 - (d) Bardoli
- 83. Consider the following statements related to the Virashaiva tradition in Karnataka:
 - The Virashaiva movement was led by a Brahmans named Basavanna, a minister in the court of the Kalachuri ruler in the twelfth century.
 - The Virashaivas encouraged practices, approved by the Dharmashastras, like post-puberty marriages and remarriage of widows.

Which of the statement/s given above is/are correct?

- (n) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

- 84. Consider the following statements related to Wellesley's administration:
 - In the six years of Wellesley's administration, the army accounted for 42.5 percent of the Company's total expenditure.
 - Wellesley's administrative measures were restricted to the affairs of the Company and had nothing to do with the commercial and military affairs of the Indian ruling families.

Which of the statement/s given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- Consider the following statements concerning the Russian Revolution:
 - The Bolsheviks believed that in a repressive society like Tsarist Russia, the party should be disciplined and should control the number of its members.
 - The Mensheviks believed that the party should be opened to all (as in Germany).

Which of the statement/s given above is/are correct?

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

- 36. A thin disc and a thin ring, both have mass M and radius R. Both rotate about axes through their center of mass and are perpendicular to their surfaces at the same angular velocity. Which of the following is true?
 - (a) The ring has higher kinetic energy
 - (b) The disc has higher kinetic energy
 - (c) The ring and the disc have the same kinetic energy
 - (d) Kinetic energies of both the bodies are zero since they are not in linear motion
- 87. Let there be an object having some chemicals in it. It starts moving with a uniform velocity v and a chemical reaction starts happening. In this case, which of the following statement/s is/are correct?
 - Chemical reactions happening in the system cannot change the velocity v of the center of mass of the object.
 - Chemical reactions happening in the system cannot change kinetic energy of the particles inside with respect to the center of mass of object.

Select the correct answer using the code given below:

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

- gg. In which of the following phenomena do heat waves travel along a straight line with the speed of light?
 - (a) Thermal conduction
 - (b) Thermal convection
 - (c) Thermal radiation
 - (d) Both, thermal conduction and radiation
- 9. Which one of the following statements regarding Ohm's law is not correct?
 - (a) Ohm's law is an assumption that current through a conductor is always directly proportional to the potential difference applied to it.
 - (b) A conducting device obeys Ohm's law when the resistance of a device is independent of magnitude and polarity of applied potential difference.
 - (c) A conducting material obeys Ohm's law when the resistance of material is independent of the magnitude and direction of applied electric field.
 - (d) All homogeneous materials obey Ohm's law irrespective of whether the field is within range or strong.
- . When a ball bounces off the ground, which of the following changes suddenly?

(Assume no loss of energy to the floor)

- (a) Its speed
- (b) Its momentum
- (c) Its kinetic energy
- (d) Its potential energy

- 91. Which one of the following compounds does not exhibit a different oxidation number of the same element?
 - (a) Pb₃O₄
 - (b) Fe₃O₄
 - (c) Fe₂O₃
 - $(d) \quad Mn_3O_4$
- 92. Which one of the following statements about glass is not correct?
 - (a) Glass is often said to be a supercooled liquid.
 - (b) Glass has no definite melting point.
 - (c) Soda glass is harder than pyrex glass.
 - (d) Boron is present in pyrex glass.
- 93. Which one of the following statements is correct?
 - Both boiling and evaporation are surface phenomena.
 - (b) Boiling is a surface phenomenon, but evaporation is a bulk phenomenon.
 - (c) Both boiling and evaporation are bulk phenomena.
 - (d) Boiling is a bulk phenomenon, but evaporation is a surface phenomenon.

Which one of the following statements about diamond and graphite is not correct?

- (a) Diamond has a tetrahedral structure, whereas graphite has a hexagonal planar structure.
- (b) Both physical and chemical properties of diamond and graphite are different.
- (c) Graphite is soft but diamond is hard.
- (d) Graphite is a good conductor of electricity while diamond is not.

The raw materials used for the manufacture of Portland cement are

- (a) Lime, silica and sulphur dioxide
- (b) Lime, silica and carbon dioxide
- (c) Lime, silica and alumina
- (d) Lime, silica and boric acid

Which one of the following statements about water is **not** true?

- (a) Hydrogen bonds are present in liquid water.
- (b) Water has a high boiling point.
- (c) Water has a high heat of fusion.
- (d) Water is a non-polar molecule.

A sample of 'soft soap' centains

- (a) Caesium
- (b) Potassium
- (c) Calcium
- (d) Magnesium

- 98. If an object moves at a non-zero constant acceleration for a certain interval of time, then the distance it covers in that time
 - (a) depends on its initial velocity.
 - (b) is independent of its initial velocity.
 - (c) increases linearly with time.
 - (d) depends on its initial displacement.
- 99. A solid disc and a solid sphere have the same mass and same radius. Which one has the higher moment of inertia about its centre of mass?
 - (a) The disc
 - (b) The sphere
 - (c) Both have the same moment of inertia
 - (d) The information provided is not sufficient to answer the question
- 100. Two substances of densities ρ₁ and ρ₂ are mixed in equal volume and their relative density is 4. When they are mixed in equal masses, relative density is 3. The values of ρ₁ and ρ₂ respectively are
 - (a) 6, 2
 - (b) 3, 5
 - (c) 12, 4
 - (d) 9, 3

- 1. Which of the following was/were among the 106. How many Ramsar conservation sites have decisions taken by the First Continental Congress held in Philadelphia in September
 - It rejected a plan for a colonial union 1. under the British authority.
 - It drew up a statement of grievances.
 - 31 It agreed upon a scheme to stop trade 107. The Munda language group belongs to which between the Colonies and England.

Select the correct answer using the code given below:

- (a) 1 and 3 only
- (b) 2 only
- (c) 1 and 2 only
- (d) 1, 2 and 3
- 22. Which one of the following land territories of Indonesia is not touched by the Equator?
 - (a) Sumatra
 - (b) Sulawesi
 - (c) Java
 - (d) Kalimantan
- 03. Which one of the following sedimentary rocks is organically formed?
 - (a) Shale
 - Chert (b)
 - (c) Halite
 - Chalk (d)
- Köppen climatic the 04. According classification, the letter code Cfa denotes
 - Tropical wet climate. (a)
 - Humid subtropical climate. (b)
 - Tundra climate. (c)
 - Tropical wet and dry climate. (d)
- 05. In which one of the following folds is the axial plane found to be virtually horizontal?
 - (a) Isoclinal
 - Anticlinal (b)
 - Recumbent
 - Monoclinal (d)

- been enlisted from India so far ?
 - 12 (n)
 - 16 (b)
 - (e) 27
 - 62 (d)
- family?
 - Austric (a)
 - Dravidian (b)
 - Sino-Tibetan (c)
 - Indo-European (d)
- 108. Which one of the following statements about the Suez Canal is not correct?
 - The Suez Canal was constructed in 1869.
 - It links the Mediterranean Sea and the (b) Red Sea.
 - It has a six lock system and ships cross (c) the different levels through these locks.
 - It has given Europe a new gateway to (d) the Indian Ocean.
- 109. Which among the following statements is not correct about the Reign of Terror?
 - The Jacobins dashed out the Girondists (a) with the help of sans-culottes.
 - The Jacobins were in league with the (b) French clergy.
 - for anti-revolutionary (c) arrest activities was by law restricted to the political class.
 - The Reign of Terror came to an end with (b) the execution of Robespierre by guillotine in July 1794.
- 110. Who among the following was the first Indian to qualify for the Indian Civil Service?
 - (ii) Satyendranath Tagore
 - Surendranath Baneriee (b)
 - R.C. Dutt (c)
 - Subhas Chandra Bose (d)

- 111. Which among the following was/were among 115. The normal lapse rate of temperature of the factors for England to experience the Industrial Revolution first?
 - 1. The scientific inventions had paved the way for Industrial Revolution.
 - It had favourable social and political structures in place.
 - Navigable rivers had made inland 116. The transport easier.
 - It had seen the ascendancy of capitalist 4. practices.

Select the correct answer using the code given

- 1 and 3 only (a)
- (b) 1, 3 and 4 only
- (c) 4 only
- (d) 1, 2, 3 and 4
- 112. Article 46 of the Constitution of India refers to the promotion of educational and economic interests of
 - (a) religious minorities.
 - Scheduled Castes, Scheduled Tribes and (b) other weaker sections.
 - displaced persons from large irrigation (c) projects.
 - the economically deprived. (d)
- 113. Who was the Education Minister in the first Cabinet of independent India?
 - Sarvepalli Radhakrishnan (a)
 - Sardar Vallabhbhai Patel (b)
 - Maulana Abul Kalam Azad (c)
 - Acharya Narendra Dev (d)
- 114. Who among the following died in exile?
 - Rani Laxmibai (a)
 - Bahadur Shah Zafar (b)
 - Tantia Tope (c)
 - Nana Saheb (d)

- Earth's atmosphere drops to 0°C at the
 - upper part of ionosphere. (n)
 - upper boundary of the tropopause. (b)
 - lower part of mesosphere. (c)
 - upper boundary of stratopause. (d)
- Research headquarters of National Laboratory for Conservation of Cultural Property (NRLC) is located at
 - New Delhi (R)
 - Lucknow (b)
 - Kolkata (e)
 - (b) Bhopal
- 117. Loktak lake is situated in the State of
 - Sikkim. (a)
 - (b) Manipur
 - Odisha (c)
 - Mizoram (d)
- 118. Stalactite, stalagmite and pillars are the depositional landforms of
 - running water. (a)
 - wind. (b)
 - (c) glacier.
 - underground water. (d)
- 119. A deep valley characterized by steep step-like slope is known as
 - (a) U-shaped valley.
 - (b) Blind valley.
 - Gorge. (e)
 - Canyon. (B)
- 120. Which one of the following is a major plate?
 - Pacific Plate (a)
 - Cocos Plate
 - Arabian Plate (c)
 - Philippine Plate (b)

- Mater is heated with a coil of resistance R 124. Two bodies of mass M each are placed R connected to domestic connected to domestic connected to domestic supply. The rise of temperature of water will depend on
 - Supply voltage.
 - Current passing through the coil. 2.
 - Time for which voltage is supplied.

Select the correct answer from among the following:

- (11) 1, 2 and 3
- (b) 1 and 2 only
- (c) 1 only
- (d) 2 and 3 only
- 22. A pendulum clock is lifted to a height where the gravitational acceleration has a certain value g. Another pendulum clock of same length but of double the mass of the bob is lifted to another height where gravitational acceleration is g/2. The time period of the second pendulum would be :
 - (in terms of period T of the first pendulum)
 - $\sqrt{2} T$ (a)
 - (b)
 - $2\sqrt{2}T$ (c)
 - T (d)
- 23. The loudness of sound depends upon the
 - velocity of sound waves in the medium. (a)
 - amplitude of the sound waves. (b)
 - frequency of the sound waves. (c)
 - frequency and velocity of the sound (d) WHYCH.

distance apart. In another system, two bodies of mass 2M each are placed $\frac{R}{2}$ distance spart.

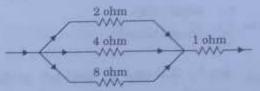
If F be the gravitational force between the bodies in the first system, then the gravitational force between the bodies in the second system will be

- 16 F (a)
- 1 F (b)
- 4 F (e)
- None of the above (d)
- 125. Light rays move in straight lines. But through an optical fibre, they can move in any type of zigzag path because
 - (a) the holes through the fibre extremely fine.
 - (b) light rays are absorbed at the entry end and relieved at the exit end of the fibre.
 - scattering of light occurs inside the fibre.
 - successive total internal reflections (d) occur as a ray moves through the fibre.
- 126. Which one of the following statements regarding cathode rays is not correct?
 - Cathode ray particles are electrons. (a)
 - Cathode ray particles start from anode (b) and move towards cathode.
 - In the absence of electrical and magnetic (c) fields, cathode rays travel in straight
 - Television picture tubes are cathode ray (d) tubes.

27. A very large volume of hydrogen can be 131. Thyroid gland produces a hormone called non-metallic hydrides. "Thyroxine" which hydrogen peroxide. (b) (a) controls blood glucose levels. non-stoichiometric hydrides. controls ovulation. (b) (e) alkali metal hydrides. (6) controls metabolic rate. (d) (d) maintains pregnancy. s. Which one of the following is not a monatomic 132. Which one of the following is a bacterium that element? causes disease in the human body? (a) Copper Varicella zoster (a) (b) Helium Trypanosoma gambiense (b) (c) Iodine Salmonella typhi (e) (d) Plasmodium falciparum (d) Barium 133. Which one of the following statements 9. Which one of the following represents the regarding viruses is not true? correct order of electron releasing tendency of Viruses need living cells to reproduce. (a) metals? All viruses are parasites. (b) Zn > Cu > Ag (a) synthesize food their (c) can Ag > Cu > Zn (b) through photosynthesis. chemical Cu > Zn > Ag (d) Viruses are similar to (c) substances outside the host Cu > Ag > Zn (d) 134. Which one of the following diseases may be 0. Which one of the following is the major caused by the deficiency of vitamin C? constituent of biogas ? Rickets (a) Carbon dioxide (a) Rabies (b) Nitrous oxide (b) (c) Hepatitis Methane (d) Scurvy (c) Oxygen (d) (31-B) M-U-TAG

- 35. A car starts from Bengaluru, goes 50 km in a 138. If the work done on the system or by the straight line towards south, immediately turns around and returns to Bengaluru. The time taken for this round trip is 2 hours. The magnitude of the average velocity of the car for this round trip
 - (a) is 0.
 - (b) is 50 km/hr.
 - (c) is 25 km/hr.
 - (d) acceleration.
- 136. "The sum of emf's and potential differences around a closed loop equals zero" is a consequence of
 - Ohm's law.
 - (b) Conservation of charge.
 - Conservation of momentum.
 - (d) Conservation of energy.
- 137. A student measures certain lengths using a meter scale having least count equal to 1 mm. Which one of the following measurements is more precise?
 - 0.50 mm (1)
 - 29-07 cm (b)
 - 0.925 m (6)
 - 910 mm (d)

- system is zero, which one of the following statements for a gas kept at a certain temperature is correct?
 - Change in internal energy of the system is equal to flow of heat in or out of the system.
 - Change in internal energy of the system (b): is less than heat transferred.
 - Change in internal energy of the system (e) is more than the heat flow.
 - Cannot be determined. (d)
- cannot be calculated without knowing 139. Consider the following part of an electric circuit :



The total electrical resistance in the given part of the electric circuit is

- $\frac{15}{8}$ ohm
- $\frac{15}{7}$ ohm (b).
- ter 15 ohm
- $\frac{17}{9}$ ohm (d)
- 140. Which one of the following statements regarding lenses is not correct?
 - A convex lens produces both real and (41) virtual images.
 - A concave lens produces both real and virtual images.
 - A convex lens can produce images equal, (c) greater and smaller than the size of the object
 - A concave lens always produces images (d) smaller than the size of the object.