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PART - A

Synonyms

Directions: Each item in this section consists of a sentence with an underlined word followed by four words, (a), (b), (c) and (d). Select the option that is **nearest in meaning** to the underlined word and mark

- 1. He is essentially a lowbrow person.
 - (a) coarse
 - (b) proud
 - (c) passionate
 - (**d**) pathetic
 - 2. His nostalgia is deep.
 - (\mathbf{a}) excitement
 - (*b*) longing
 - (c) happiness
 - (**d**) ability
 - 3. His truancy is detrimental.
 - (\mathbf{a}) loyalty
 - (**b**) integrity
 - (c) honesty
 - (**d**) absenteeism
 - 4. He is a maleficent person.
 - (a) generous
 - (**b**) cunning
 - (c) criminal
 - (**d**) friendly
 - His solemnity is celebrated.
 - (a) greed
 - (b) desire
 - (c) trust
 - (d) dignity-

- 6. His bounty is limitless.
 - (\mathbf{a}) benevolence
 - (b) gallantry
 - (c)nepotism
 - (**d**) chivalry
- 7. The Holocaust was experienced by millions.
 - (a) celebration
 - (b) destruction -
 - (c) construction ·
 - (d) beautiful
 - His <u>aversion</u> is known to all. 8.
 - (a) hospitality
 - (b) hostility
 - (c) humility
 - (d) humbleness
 - To be able to decipher something is wonderful. 9.
 - (a) decode
 - (b) encode
 - **(c)** simulate
 - (**d**) animate
 - It is the opportune time to think about investment in the real estate sector.
 - honorary (\mathbf{a})
 - (b) appropriate
 - (c) difficult
 - (**d**) unsuitable

Spotting Errors

Directions: Each item in this section has a sentence with three underlined parts labelled (a), (b) and (c).

Read each sentence to find out whether there is any error in any underlined part. Indicate your response in the Answer Sheet against the corresponding letter i.e., (a) or (b) or (c). If you find no error, your response in should be indicated as (d).

- 11. Nursery classes for the children (a) (b) starts on April every year. No error (d)
- 12. The pollution level is very high in our city, and becomes a health hazard.

 (a)
 (b)
 (c)

 No error
 (d)
- 13. India is a country of linguistic and cultural diversity with (a) (b) multiple ethnic and social groups.

No error

14. Why does the lapse rate effect the tendency of air to rise? No error

(a)

(b)

(c)

No error

(d)

DFGT-U-GTA

1	The thorax is the upper part of the thorax is the upper part of th	art of your bo	dy from the neck down	
	(a)		(b)	
	to the bottom of the ribs a	nd diaphragm	No error	
	(c)		(d)	
16.	The practical uses of astro	logy have sel	dow t	
	(a)	se	(b)	
	studied outside India. No	error	(0)	
	(c)	(d)		
17.	She collected some arms	1) af		
	(a)	(b)	and poured them down a drain.	No error
18.	In many countries of	2.27	(c)	(d)
	(a)	ited Nations	or other internationally organise	<u>d</u>
	peacekeeping forces are		(b)	
	peacekeeping forces are tr	ying to keep th	he peace. No error	
	,	c)	(d)	
19.	Early cities rely on food ar	nd water from	n the surrounding countryside,	
	(a)		(b)	
	but today cities often depe	nd on distant		
		c) ,	(d)	
20.	Climate change, whether i	t is natural c	or human in 1	
	(a)		(b)	
	is stressful for the people.	No error		
	(c)	(d)		
DFGT-	U-GTA		(4-C)	

Antonyms

pirections: Each item in this section consists of a sentence with an underlined word followed by four pirections: (a) (b) (c) and (d). Select the option that is opposite in meaning to the underlined word and (d). **pirections**: Each item in this section consists of a section meaning to the underlined word and mark words, (a), (b), (c) and (d). Select the option that is **opposite in meaning** to the underlined word and mark your response in your Answer Sheet accordingly.

21.	His opinion	is	lopsided
4.		_	

- partial (a)
- crooked (b)
- unequal (c)
- balanced (d)

His work is praiseworthy.

- admirable (a)
- condemnable (b)
- commendable
- creditable (d)

His deeds had retrograde results.

- progressive (a)
- negative (b)
- retreating (c)
- (d) reverse

He always offers palatable solutions.

- acceptable (a)
- (b) agreeable
- (c) unacceptable
- (d) pleasant

His views on the subject are microscopic.

- (a) broad-based
- (b) minute
- (c) precise
- (d) fine

DFGT-U-GTA

- He is always obdurate in his behaviour 26. towards other people.
 - flexible (a)
 - callous (b)
 - insensible (c)
 - obnoxious (d)

Mohan always had profound respect for **27**. Sohan.

- deep (a)
- extreme (b)
- sincere (c)
- superficial (d)

We were living in turbulent times. 28.

- destructive (a)
- unstable (b)
- (c) calm
- (d) stormy

Amit is a dogmatic person. 29.

- assertive (a)
- amenable (b)
- (c) bold
- rigid ' (**d**)

Sachin is very fickle in his behaviour. 30.

- stable (\mathbf{a})
- capricious (b)
- mercurial (c)
- vacillating (d)

Ordering of words in a sentence

Directions: 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.

nam respo	$_{cly}$ (a), (b), (c) and (d). For the required to re-arra $_{cnse}$ accordingly.	nge the jumotea parts of the sellicited and
31.	symbolic of peace, and prosperity the Gupta F	Empire in India is
	P	Q
	represented through numismatic archaeological	and literary evidences of multiple kind
	R	S
	The correct sequence should be:	
	(a) QPRS	
	(b) QSRP	
	(c) PSQR	
	(d) RSQP	
32.	the transportation system so that it and not	just the affluent section of society
	P	
		Q
	provides mobility to everyone there are many	ways to restructure
	R LCCP	STA
	The correct sequence should be :	FYAMS
	(a) PQRS	
	(b) RQPS	
	(c) SPRQ ·	
	(d) QRPS	
33	and accurately displays spatial relationship	
	P relationship	s between landforms and water bodies
		Q
	the globe shows Earth's spherical shape and	,
	R	comparative distance between locations
	The second	S
	The correct sequence should be:	
	(a) PQRS	
	(b) RPQS	
	(c) SPQR	
	(d) QRPS	

0.4	the function of the capillaries and other material to all the cells in
34.	Q Q
	to take away their waste material
	is to take nutrients, oxygen R the body and to take data.
	The correct sequence should be:
	(a) PRQS
	(b) RPQS
	(c) SPQR
	(d) QRPS
	like mine even to someone with a tin ear her singing sounded pretty melodious
35.	P Q R S S
	The correct sequence should be:
	(a) PRQS
	(b) RPQS
	(c) SPQR
	(d) QRPS
36.	the sorry state of affairs in the modern factories the Government of India
	P
	under the British was pro-capitalist though it took some half-hearted steps to mitigate
	\mathbf{R}
	The correct sequence should be:
	(a) PRQS
	(b) QRSP
	(c) SPQR
	(d) QPSR
DF	GT-U-GTA

		conomic policies was tl	—————
	P	Q	
	a major characteristic of British rule in I	ndia and the net res	sult of British
	R The correct to	\mathbf{S}	
	The correct sequence should be : (a) PRQS		
	(b) QRSP		
	(c) RSQP		
	(d) QPSR		
38.	you can't judge very intelligent, but	a book by its cover	he doesn't look
	P Q	R	S
	The correct sequence should be :		S
	(a) SQPR		
	(b) QRSP		
	(c) RSQP		
	(d) QPSR		
39.	membership and partisanship as well a		
	P	s can be found in th	e decline in party
		Q	
	evidence of a crisis in party politics in	the rise of anti-	
	R		groups and movemen
	The correct sequence should be:	S	
	(a) RQPS		
	(b) QRSP		
	(c) RSQP (d) QPSR		
	4- SI		
40.	government, market and voluntary org	anisationa	
	P	mixture	of contributions from
	the provision of 11		\mathbf{Q}
	the provision of public goods and ser	vices can be regarded	Q
	R	vices can be regarded	Q as a complex
	R The correct sequence should be :	vices can be regarded S	Q as a complex
	R The correct sequence should be: (a) RQPS	vices can be regarded S	Q as a complex
	R The correct sequence should be: (a) RQPS (b) QRSP	vices can be regarded S	Q as a complex
	R The correct sequence should be: (a) RQPS (b) QRSP (c) RSQP	vices can be regarded S	Q as a complex
	R The correct sequence should be: (a) RQPS (b) QRSP	vices can be regarded S	as a complex

Idioms and Phrases

Directions: Given below are some idioms/phrases followed by four alternative meanings for each. Choose the most appropriate answer from among the options (a), (b), (c) or (d).

41. Once-over

- (a) To do something quickly
- (b) To do something elaborately
- (c) To do something perforce
- (d) To do something for others

42. A bag of bones

- (a) An extremely fat person
- (b) An extremely thin person
- (c) A wealthy person
- (d) A healthy person

43. Muddy the waters

- (a) To spread dirt around
- (b) To make a situation easy
- (c) To make one's life happy
- (d) To make the situation complicated

44. To level with

- (a) To be honest
- (b) To be on a plain
- (c) To cheat someone
- (d) To take revenge

45. Show your hand

- $^{
 m (a)}$ $^{
 m To~tell}$ people about the past
- (b) To tell people about the future
- $\frac{\text{(c)}}{\text{(a)}}$ To tell people about them
- (d) To tell people about your plans

DFGT-U-GTA

- 46. To pull up
 - (a) To lift heavy weights
 - (b) To check oneself
 - (c) To shorten the distance
 - (d) Too short of destination

47. Be out of action

- (a) To get punishment
- (b) To get reward
- (c) To become dysfunctional
- (d) To become superactive

48. Learning from the school of hard knocks

- (a) Learning things from experience
- (b) Learning things from others
- (c) Learning things from environment
- (d) Learning things through difficult experiences

49. Raise some hackles

- (a) To annoy
- (b) To make someone happy
- (c) To do a great task
- (d) To sit idle

50. A man of letters

- (a) An excellent artist
- (b) A scholar in literature
- (c) An outstanding sportsman
- (d) A known novelist

PART - B

- 51. Girth of stem of a plant increases due to division of cells in
 - (a) apical meristem only.
 - (b) lateral meristem only.
 - (c) apical and intercalary meristem.
 - (d) both apical and lateral meristem.
- 52. Different varieties of the same gene are called
 - (a) Genotypes
 - (b) Sib pairs
 - (c) Alleles
 - (d) Isomers
- 53. Which one of the following viruses used to be responsible for highly infectious disease Smallpox?
 - (a) Adenovirus
 - (b) Variola virus
 - (c) Aichi virus
 - (d) Coxsackie virus
- **54.** Buoyancy is a/an
 - (a) upward pressure
 - (b) downward pressure
 - (c) downward force
 - (d) upward force

- Weight and mass of an object are defined with Newton's laws of motion. Which among the following is true?
 - (a) Weight is a constant of proportionality.
 - (b) Mass is a constant of proportionality.
 - (c) Mass is a constant of proportionality.
 - (d) Weight is a universal constant.
- 56. Fundamental laws of physics require
 - (a) conservation of energy and non-conservation of charge.
 - (b) conservation of charge and non-conservation of linear momentum.
 - (c) conservation of charge and non-conservation of energy.
 - (d) conservation of energy, momentum and charge.
- 57. Work is said to be one Joule when a force of
 - (a) 4 N moves an object by 25 cm.
 - (b) 2 N moves an object by 1 m.
 - (c) 1 N moves an object by 1 cm.
 - (d) 1 N moves an object by 50 cm.
- **58.** A uniform motion of a car along a circular path experiences
 - (a) a change in speed due to a change in its direction of motion.
 - (b) a change in velocity due to a change in its direction of motion.
 - (c) a change in momentum due to no change in its direction of motion.
 - (d) a constant momentum due to a change in its direction of motion.

- Three equal resistors are connected in parallel configuration in a closed electrical circuit.Then the total resistance in the circuit becomes
 - (a) one-third of the individual resistance.
 - (b) two-third of the individual resistance.
 - (c) equal to the individual resistance.
 - (d) three times of the individual resistance.
- **60.** Rutherford's alpha-particle (α) scattering experiment was responsible for the discovery of which one of the following?
 - (a) Electron
 - (b) Proton
 - (c) Atomic Nucleus
 - (d) Neutron
- 61. What is the maximum number of electrons in the M-Shell?
 - (a) 6
 - (b) 8
 - (c) 18
 - (d) 32
- 62. Chlorine occurs in nature in two isotopic forms of masses 35 u and 37 u in the ratio of 3:1 respectively. What is the average atomic mass of the Chlorine atom?
 - $(a) \quad \ 36{\cdot}1\ u$
 - (b) 35·5 u
 - (c) 36·5 u
 - (d) 35·1 u

- **63.** Which one of the following elements' isotopes is used in the treatment of cancer?
 - (a) Iodine
 - (b) Sodium
 - (c) Cobalt
 - (d) Uranium
- 64. To protect steel and iron from rusting, a thin layer of which one of the following metals is applied?
 - (a) Magnesium
 - (b) Zinc
 - (c) Aluminium
 - (d) Lead
- 65. Cinnabar is an ore of which one of the following?
 - (a) Copper
 - (b) Zinc
 - (c) Mercury
 - (d) Manganese
- **66.** Imagine a current-carrying straight conductor with magnetic field of lines in anti-clockwise direction. Then the direction of current is determined by
 - (a) the Right-Hand Thumb rule and it would be in the downward direction.
 - (b) the Left-Hand Thumb rule and it would be in the downward direction.
 - (c) the Right-Hand Thumb rule and it would be in the upward direction.
 - the Left-Hand Thumb rule and it would be in the upward direction.

- The device used to produce electric current is **67**. known as
 - (a) motor
 - (b) generator
 - (c) ammeter
 - (**d**) galvanometer
- 68. Myopia is a defect in human vision where an image of a
 - (\mathbf{a}) nearby object is focused beyond the retina.
 - (b) nearby object is focused before the retina.
 - (c) distant object is focused before the retina.
 - (**d**) distant object is focused beyond the retina.
- Tyndall effect is a phenomenon of 69.
 - scattering of light by the colloidal (\mathbf{a}) particles.
 - refraction of light by the colloidal (b) particles.
 - dispersion of light by dust particles. (c)
 - refraction of light by dust particles. (d)
- Twinkling of stars is primarily due to the **70**. atmospheric
 - refraction (a)
 - (b) reflection
 - (c) polarization
 - (d) dispersion

- Games medallist, who died recently, was associated with which one of the following games? 71.
 - Swimming (a)
 - Boxing (b)
 - Archery (c)
 - **Gymnastics**
- Who among the following is the lone Indian Cricketer included in the ICC Hall of Fame 72. special inductions to mark the inaugural ICC World Test Championship Final?
 - Dilip Vengsarkar (a)
 - Ravi Shastri (b)
 - Mohinder Amarnath (c)
 - Vinoo Mankad (d)
- Which one of the following nations is not a **73.** permanent member of G7?
 - India (a)
 - Canada (b)
 - (c) France
 - (d) Italy
- 74. Operation Olivia, an initiative to protect Olive Ridley turtles, is undertaken by
 - (a) Indian Navy
 - Indian Coast Guard (b)
 - Ministry of Environment, Forest and (c) Climate Change
 - Ministry of Earth Sciences (d)
- **75**. Who among the following is the winner of the French Open 2021 Men's Singles Final?
 - Novak Djokovic
 - Rafael Nadal
 - Stefanos Tsitsipas
 - (d) Daniil Medvedev

76.	Ecor	nomiat D-1		The pH value of Milk of Magnesia is
• • •	beca	nomist Rebeca Grynspan, who recently	81.	The pH value approximately
	the l	me the first woman to be appointed as nead of the United Nations Conference on		7-40
	Hau	be and Development (UNCTAD) hails		(a) Zero (b) 7
	HOIII			(c) 10
	(a)	Germany		
	(b)	Poland		callowing compounds is used
	(c)	Costa Rica	82.	Which one of the follows of the foll
	(d)	Mexico		in black and wifee
77.	'Belt	and Road Initiative' is a foreign policy		(a) AgF
	initi	ative of		(b) AgBr
	(a)	China		(c) AgCl
	(b)	United States of America		(d) Ag_2SO_4
	(c)	Canada	83.	What is the number of water molecules
	(d)	Japan	00.	present in a Ferrous Sulphate crystal?
78.		ch one of the following is the theme of the		(a) 1
		rnational Day of Yoga 2021?		(b) 3
	(a)	Yoga at home and yoga with family		(c) 5
	(b)	Yoga for climate action		(d) 7
	(c)	Yoga for well-being		
	(d)	Yoga for peace	84.	What is the colour of the precipitate obtained
79 .	Kenn age o	neth Kaunda, who died recently at the of 97, was the former president of		by passing CO ₂ gas through lime water?
	(a)	Brazil		(a) Green
	(b)	Mexico		(b) Blue
	(c)	Zambia		(c) White
	(d)	South Sudan		(d) Brown
80.	The Nava	maiden Indian Navy – European Union l Force (IN-EUNAVFOR) Exercise (2021) conducted in	85,	Which one of the following pairs of elements is liquid at room temperature and at normal pressure?
	(a)	Gulf of Mannar		(a) Galling
	(b)	Gulf of Aden		(a) Gallium and Bromine (b) More
	(c)	Gulf of Khambhat		Mercury and Bromis
	(d)	Gulf of Aqaba		and Mor
DFG1	Γ-U-G1	TA (17 -	- C)	Gallium and Caesium

86.	Which one of the following methods can be used to separate anthracene from a mixture of salt and anthracene? (a) Distillation
	(b) Sublimation
	(c) Evaporation
	(d) Chromatography
87.	Shoots of plant show upwerd

- 87. Shoots of plant show upward movement and it can be designated to be
 - (a) Negatively phototropic
 - (b) Positively chemotropic
 - (c) Positively hydrotropic
 - (d) Negatively geotropic
- **88.** Which one of the following statements about the process of photosynthesis is correct?
 - (a) Chemical energy is converted into light energy.
 - (b) Carbon dioxide is oxidised to form carbohydrate.
 - (c) Water molecule splits into hydrogen and oxygen.
 - (d) Light energy is directly used to split water.
- **89.** How are evergreen plants with woody stems having naked seed classified?
 - (a) Angiosperms
 - (b) Monocotyledons
 - (c) Pteridophytes
 - $(d) \quad \ Gymnosperms$
- **90.** Which one of the following tissues is known as basic packing tissue and found in xylem and phloem?
 - (a) Collenchyma
 - (b) Parenchyma
 - (c) Sclerenchyma
 - (d) Vessels

- 91.) Which one from among the following planets is largest in size?
 - (a) Earth
 - (b) Venus
 - (c) Mars
 - (d) Mercury
- **92.** Match List I with List II and select the correct answer using the code given below the lists:

	List I	List~II
	(Place)	(Feature)
Α.	Mumbai	1. Queen of the
Λ.	Mullious	Arabian Sea

- B. Visakhapatnam 2.
- 2. Biggest port of India
- C. Chennai
- 3. Land-locked harbour
- D. Kochi
- 4. Oldest port on the Eastern Coast

Code:

	A	В	\mathbf{C}	D
(a)	2	4	3	1
(b)	2	3	4	1
(c)	1	3	4	2
(d)	1	4	3	2

- 93. Which one of the following is a crater lake in India?
 - (a) Lonar Lake
 - (b) Sambhar Lake
 - (c) Chilika Lake
 - (d) Vembanad Lake

94.	Fine-	grained	bed	of	ephemeral	lake	in	a	98.	
	desert is also known as									
	(a)	Playa								
	(b)	Oasis								

- (c) Drumlin
- (d) Natural levee
- **95.** Which one of the following factors does **not** affect the distribution of groundwater?
 - (a) Amount of precipitation
 - (b) Rate of evaporation
 - (c) Ability of the ground surface to allow water to infiltrate into the groundwater system
 - (d) Distance from the sea
- 96. The Constitution (35th Amendment) Act of 1974 is related to which one of the following States?
 - (a) Mizoram
 - (b) Sikkim
 - (c) Nagaland
 - (d) Arunachal Pradesh
- 97. Which one of the following best describes the electoral system of India?
 - $(a) \quad \ First-Past-the-Post\ System$
 - (b) Proportional Representation
 - (c) Mixed System
 - ' (d) General Ticket

- **98.** Which one of the following is a non-justiciable right?
 - (a) Right to adequate livelihood
 - (b) Right against exploitation
 - (c) Right of accused
 - (d) Right to life and personal liberty
- 99. Which one of the following is **not** a writ?
 - (a) Mandamus
 - (b) Habeas Corpus
 - (c) Certiorari
 - (d) Severability
- 100. Which one of the following is **not** a part of Fundamental Rights?
 - (a) Right to education
 - (b) Right to establish educational institutions by minorities
 - (c) Right to be conferred with titles
 - (d) Right against untouchability
- 101. Which one of the following is **not** a function of the Constitution of India?
 - (a) To ensure participation of good people in politics
 - (b) To guarantee a set of rights to citizens
 - (c) To define the power of the different organs of government
 - (d) To create conditions for a just society

- **102.** Which one of the following statements about biodiversity is *not* correct?
 - (a) The term 'biodiversity' was coined by Walter G. Rosen in 1986.
 - (b) The term 'biodiversity hotspots' was coined by Norman Myers in 1988.
 - (c) The regions having richest biodiversity are called 'biodiversity hotspots'.
 - (d) More than 100 hotspots of biodiversity are identified in the world.
- **103.** The Earth's atmosphere is mainly heated by which one of the following?
 - (a) Short wave solar radiation
 - (b) Reflected solar radiation
 - (c) Long wave terrestrial radiation
 - (d) Scattered solar radiation
- **104.** Which one of the following is the correct sequence of layers as we move from the Earth's surface upwards?
 - (a) Troposphere, Stratosphere, Thermosphere, Mesosphere
 - (b) Troposphere, Stratosphere, Mesosphere, Thermosphere
 - (c) Thermosphere, Mesosphere, Stratosphere, Troposphere
 - $\begin{array}{ll} (d) & Stratosphere,\, Mesosphere,\, Troposphere,\\ & Thermosphere \end{array}$

- **105.** Which one of the following is **not** a soil forming factor?
 - (a) Parent material
 - (b) Topography
 - (c) Climate
 - (d) Human habitation
- **106.** Which one of the following best describes the Lithosphere?
 - (a) Upper and lower mantle
 - (b) Crust and core
 - (c) Crust and upper mantle
 - (d) Lower mantle and core
- 107. Which one of the following countries has the maximum time difference from Greenwich Mean Time (GMT)?
 - (a) India
 - (b) Nepal
 - (c) Sri Lanka
 - (d) Bhutan

- 108. Which one of the following is not a feature of 111. Cornea in human eye the Constitution of India?
 - (a) It provides a set of basic rules.
 - (b) It specifies the power the of Government.
 - It is the supreme law of the land. (c)
 - It specifies the supremacy of the (d) judiciary.
- **109.** Which one of the following statements about the Attorney General of India is not correct?
 - (a) He has the right of audience only in the Supreme Court of India.
 - (b) He shall receive such remuneration as the President may determine.
 - (c) He shall be qualified to be appointed as a Judge of the Supreme Court.
 - (**d**) He shall give advice to the Government of India on all legal matters.
- 110. Who among the following described the Directive Principles of State Policy as the novel feature of the Constitution of India?
 - (a) Jawaharlal Nehru
 - (b) Rajendra Prasad
 - (c) S.N. Mukherjee
 - (d) B.R. Ambedkar

- - is a light sensitive screen. (a)
 - is a muscular diaphragm. (b)
 - contains blood vessels. (c)
 - is composed of proteins and cells. (d)
- 112. Power of a lens of focal length 25 cm is
 - +2.5 Dioptre (a)
 - +3 Dioptre (b)
 - +4 Dioptre (c)
 - +5 Dioptre (d)
- 113. What is the total number of chambers in the stomach of domestic animals like cattle. buffalo, goat and sheep?
 - (a) Four
 - Two (b)
 - One (c)
 - (d) Three
- 114. Intestinal bacteria are main source of which one of the following vitamins?
 - (a) Vitamin E
 - (b) Vitamin C
 - (c) Vitamin B₁₂
 - (d) Vitamin A
- 115. Which one of the following hormones is responsible for the development of female sexual characters?
 - (\mathbf{a}) Prolactin
 - (b) Estrogen
 - (c) Oxytocin
 - Progesterone (d)

- 116. Spherical mirror formula relating an object distance 'u', image distance 'v' and focal length of mirror 'f' may be applied to a plane mirror when
 - (a) focal length goes to infinity.
 - (b) focal length goes to zero.
 - (c) image distance goes to zero.
 - (d) image distance goes to infinity.
- 117. Nuclear energy is generated by
 - (a) nuclear fission and its expression was proposed by Einstein.
 - (b) nuclear fission and its expression was proposed by Rutherford.
 - (c) nuclear fusion and its expression was proposed by Bohr.
 - (d) nuclear fusion and its expression was proposed by Heisenberg.
- 118. Reverberation is a phenomenon associated with a
 - (a) multiple refraction of sound.
 - (b) multiple reflection of sound.
 - (c) single refraction of sound.
 - (d) single reflection of sound.
- **119.** Which among the following is true for propagation of sound waves?
 - (a) Sound can travel in vacuum and it is a transverse wave in air.
 - (b) Sound cannot travel in vacuum and it is a longitudinal wave in air.
 - (c) Sound can travel in vacuum and it is a longitudinal wave in air.
 - (d) Sound cannot travel in vacuum and it is a transverse wave in air.

- 120. A tennis ball is thrown in the vertically upward direction and the ball attains a maximum height of 20 m. The ball was thrown approximately with an upward velocity of
 - (a) 8 m/s
 - (b) 12 m/s
 - (c) 16 m/s
 - (d) 20 m/s
- 121. An object of mass 2000 g possesses 100 J kinetic energy. The object must be moving with a speed of
 - (a) 10.0 m/s
 - (b) 11.1 m/s
 - (c) 11.2 m/s
 - (d) 12·1 m/s
- 122. Which one of the following ions is **not** iso-electronic with F^- ?
 - (a) O^{2-}
 - (b) Na+
 - (c) Ne
 - (d) N⁻.
- **123.** What is the total number of covalent bonds in methanol?
 - (a) 3
 - (b) 4
 - (c) 5
 - (d) 6

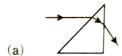
124. Which one of the following is the chemical formula of Plaster of Paris?

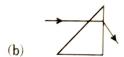
(a)
$$CaSO_4 \cdot \frac{1}{2}H_2O$$

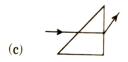
(b)
$$CaSO_4 \cdot 2H_2O$$

(d)
$$CaSO_4 \cdot 4H_2O$$

- 125. The unit of the ratio between thrust and impulse is same as that of
 - (a) frequency
 - (b) speed
 - (c) wavelength
 - (d) acceleration
- 126. Which one of the following figures correctly shows the path of a ray of light through a glass prism?









- 127. When a light beam falls on a triangular glass prism, a band of colours is obtained. Which one of the following statements is correct in this regard?
 - (a) Red light bends the most, as the refractive index of glass for red light is greatest.
 - (b) Red light bends the most, as the refractive index of glass for red light is lowest.
 - (c) Violet light bends the most, as the refractive index of glass for violet light is greatest.
 - (d) Violet light bends the most, as the refractive index of glass for violet light is lowest.
- 128. The image of an object formed by a plane mirror is
 - (a) erect, real and larger.
 - (b) erect, virtual and same size.
 - (c) inverted, virtual and same size.
 - (d) inverted, real and smaller.
- **129.** Which one of the following is **not** a conservative force?
 - (a) Frictional force
 - (b) Electric force
 - (c) Gravitational force
 - (d) Spring force
- 130. A negative work is done when an applied forceF and the corresponding displacement S are
 - (a) perpendicular to each other.
 - (b) parallel to each other.
 - (c) anti-parallel to each other.
 - (d) equal in magnitude.

- 131. Which of the following statements about the Indian Councils Act of 1861 is/are correct?
 - It enlarged the Governor General's 1. Council for the purpose of making laws.
 - Governor General was 2. authorised to increase the number of members.

Select the correct answer using the code given below:

- 1 only (a)
- 2 only (b)
- Both 1 and 2 (c)
- (d) Neither 1 nor 2
- 132. Which one of the following statements about Tattvabodhini Patrika is correct?
 - It promoted a systematic study of (a) India's past in the Bengali language.
 - It promoted a systematic study of (b) India's past through Sanskrit sources.
 - It promoted a systematic study of (c) India's past through Persian sources.
 - It promoted a systematic study of (**d**) India's past through Western sources.
- 133. In which one of the following years did the British demarcate a large area of land as Damin-i-koh for settling the Santhals?
 - (\mathbf{a}) 1810
 - (b) 1793
 - (\mathbf{c}) 1885
 - (\mathbf{d}) 1832
- 134. The Tropic of Cancer does not pass through which one of the following States?
 - (a) Manipur
 - (b) West Bengal
 - (c) Gujarat
 - (d) Jharkhand

135. Which of the following pairs of crop and product is/are correctly matched?

> Food crop 1.

: Ragi

Cash crop 2.

Jute

Plantation crop : Coconut 3.

Select the correct answer using the code given below:

- 1 only (a)
- 2 and 3 only (b)
- 1, 2 and 3 (c)
- 3 only (d)
- 136. Which one of the following coalfields is not located in Jharkhand?
 - Jharia (a)
 - Ramgarh (b)
 - Deogarh (c)
 - (d) Umaria
- 137. Which one of the following is the longest parallel of latitude?
 - (a) **Tropic of Cancer**
 - (b) Tropic of Capricorn
 - (c) Arctic Circle
 - (d) Equator
- 138. The periodic rise and fall of ocean water in response to gravitational forces is called
 - (a) Current
 - (b) Waves
 - (c) Tides
 - (d) Tsunami

- **139.** Which of the following statements about the first Indian Factory Act passed in 1881 is/are correct?
 - The Act dealt primarily with the problem of child labour.
 - 2. The Act laid down that children between 7 years and 12 years of age would not work for more than 9 hours a day.

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
- 140. Which of the following statements about Mahatma Gandhi's anti-untouchability campaign is/are correct?
 - 1. The All India Harijan Sevak Sangh was founded for this purpose.
 - 2. The campaign was to root out untouchability, since it did not enjoy the sanction of the Hindu shastras,

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
- 141. The founders of the *Paramhansa Mandali* founded in Maharashtra believed in which one of the following?
 - (a) Social distancing along caste lines
 - (b) Glorification of caste system
 - (c) Forbidding widow remarriage
 - (d) One God and in breaking caste rules

- **142.** Which one of the following statements about the *ishtahars* issued during the Revolt of 1857 is correct?
 - (a) They glorified the Muslim rule in India.
 - (b) They glorified the co-existence of different communities under the Mughal Empire.
 - (c) They glorified the message of Islam.
 - (d) They glorified the role of Queen Victoria.
- 143. During the Industrial Revolution, who among the following designed the 'flying shuttle loom'?
 - (a) Samuel Crompton
 - (b) Edmund Cartwright
 - (c) John Kay
 - (d) Richard Arkwright
- **144.** Match List I with List II and select the correct answer using the code given below the lists:

	$List\ I$		List II
	(Dam)		(State)
A.	Hirakud	1.	
В.	Panchet	2.	Bihar
C.	Kosi	3.	Odisha
D.	Ukai	4.	Jharkhand
Co	de:		

	A	В	\mathbf{C}	D
(a)	3	4	2	1
(b)	3	2	4	1
(c)	1	2	4	3
(d)	1	4	2	3

- 145. Which one of the following features is the result of erosion and deposition work of a river?
 - (a) Pothole
 - (b) Oxbow lake
 - (c) Levee
 - (d) Rapid
- **146.** Which one of the following is **not** a feature of agriculture in India?
 - (a) Subsistence agriculture
 - (b) Pressure of population on agriculture
 - (c) Dependence upon Monsoon
 - (d) Predominance of cash crops
- 147. Which one of the following is **not** a specified Sub-Mission of the National Livestock Mission?
 - (a) Livestock development
 - (b) Pig development in north-western region
 - (c) Fodder and feed development
 - (d) Skill development, technology transfer and extension
- **148.** Who among the following wrote the famous text 'A Discourse on Political Economy'?
 - (a) Montesquieu
 - (b) Voltaire
 - (c) Rousseau
 - (d) Adam Smith

- 149. Which of the following statements about the resolution adopted in the Karachi session of the Indian National Congress with regard to fundamental rights and economic policy is/are correct?
 - 1. It was opposed by Ambalal Sarabhai.
 - 2. Its 20 points included demands for civil liberties and adult suffrage.

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



- **150.** Which of the following statements about the Law Commission headed by Lord Macaulay is/are correct?
 - 1. It attempted to codify the laws.
 - 2. It was opposed to uniform system of Courts.

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