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 and 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 should be indicated as (d).

11.	Opening his letters,	reading them carefully a	and sending for	or his clerk,
	(a)		b)	
	he dictated answers v	with them. No error.		
	tes	(d)		
	He was my select for	:d		
12.	He was my school-in	but becoming a g	reat man,	
	he has grown proud e	enough to forget his old fi	riends. No e	rror
	ne has grown produce	(c)	(0	
				* # # * * * * * * * * * * * * * * * * *
13.	Rabindranath Tagore	a Nobel laureate and	the author of t	he national anthem,
	(a)		(b)	
	found Shantiniketan.	No error.		4
	Je .	(d)		
	The art of printing we	as introduced into Englan	d during th	e reign of Edward IV
14.	The art of printing wa	(a)	during th	(b)
	by William Caxton, a		ror.	1000
	(c)	(d)		
		(d)		
15.	(c)	e devoted himself to pub		
15.	From thirty years h			rithout taking a holiday. (c)
15.	From thirty years h	e devoted himself to pub		
15.	From thirty years h	e devoted himself to pub		
>	From thirty years have been depicted by the harmonic form of the harmoni	e devoted himself to pub (b)	lic affairs w	(c)
15.	From thirty years h	e devoted himself to pub (b)	lic affairs w	(c)
1 6.	(c) From thirty years h No error. (d) If Ramesh will be pro	e devoted himself to pub (b) moted he will get a leading (b)	higher salary.	(c) No error. (d)
1 6.	(c) From thirty years h No error. (d) If Ramesh will be pro	e devoted himself to pub (b) moted he will get a	higher salary.	(c) No error. (d)

18.	If you lend Mohan a pen	he will lend it	to someone	e else		
	(a)		(b)			
	and never you will get it bac	k. No error	<u>.</u>			
	(6)	(d)				
19.	One of most widely spread	bad habits	is the use	of tobacco.	No error.	
	-13	(b)	(0	;)	(d)	
(20)	A great part of Arabia is	desert. No	error.			
~	(b)	(c)	(d)			
		ANTO	NYMS		140	
	Directions: Each item in t followed by four words. Sel word/words and mark your	ect the option	that is opp	posite in me	eaning to the unde	l word erlined
21.	Ramesh is a very dubious c	haracter.	24. He	was born o	n a very auspiciou	ıs day.
	(a) shady		(a)	propitious		
	(b) suspicious		(b)	fortunate		
	(c) trustworthy		(5)	ominous		
	(d) doubtful			opportune		
	Do not indulge in <u>unmindful</u> please.	activities,	25. He	has deeper l	nostility towards M	lohan.
_	(a) vigilant		(a)	animosity		
	(b) careless		(b)	belligerend	e	
	(c) stupid		(c)	malice		
	(d) fatuous		-107	friendship		
23. 1	He is suffering from a curabl	e disease.	26. His	life is rathe	er monotonous.	
	(a) remediable		(a)	exciting		
((b) treatable	×	(b)	dreary	-	0
1	c terminal		(5)	tedious		
((d) operable		(d)	uneventful		

EDF-F-KJU - B

- **27.** Macbeth is a morally repulsive character.
 - (a) abominable
 - (b) attractive
 - (c) obnoxious
 - (d) ugly
- 28. The <u>serene</u> beauty of Kashmir had a soothing effect on his mind.
 - (a) placid
 - (b) pleasing
 - (c) tranquil
 - (d) turbulent

- 29. Life is transient in nature.
 - (a) brief
 - (b) momentary
 - (c) eternal
 - (d) short-lived
- 3. Sohan is a vain person.
 - (a) modest
 - (b) arrogant
 - (c) conceited
 - (d) proud

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. A dark horse
 - (a) a black coloured horse
 - (b) a person who wins a race or competition although no one expected him to
 - (c) a person who keeps secrets
 - (d) an ignorant person
- 32. A show-stopper
 - (a) someone who stops the show
 - (b) someone who organizes the show
 - (c) a performance that is extremely good
 - (d) a fashionable person
- 33. A jack of all trades
 - (a) someone who has many skills
 - (b) a confident and not very serious young man

- (c) someone who has hit the jackpot
- (d) a great businessman
- 34. Fight tooth and nail
 - (a) to quarrel with someone
 - (b) to attack someone with a lot of force
 - (c) to try hard to prevent something from happening
 - (d) to try very hard to achieve something
- 35. Fair and square
 - (a) in an honest way
 - (b) in a critical way
 - (c) neither very good nor very bad
 - (d) in a foolish way

FILL IN THE BLANK

Directions: Each of the following sentences 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.

36.	forests prevent erosion.	(c) rode in
	a) Lean	(d) drove in
,	Dense	
	c) Sparse	39. The lecture was not very interesting.
(d) Tidy	In fact I in the middle of it.
37 7	Three people were arrested and an	or it.
	llegal arms unit was by	(a) showed off
	he police in a raid.	(b) put off
	a) revealed	dozed off
(b) searched	(d) plugged off
(c) discovered	
(d) busted	40. The cops murder by kin.
20	men	(a) suspect
38. F	A woman got into the car and	(b) afford
-	drove off	(c) manage
-16	b) broke down	(d) administer
,	o) bloke down	

ORDERING OF SENTENCES

Directions: In this section each item consists of six sentences of a passage. The first and sixth sentences are given in the beginning as S1 and S6. The middle four sentences in each have been jumbled up and labelled P, Q, R and S. You are required to find the proper sequence of the four sentences and mark your response accordingly on the Answer Sheet.

- 41. S1: We do not know what to do with our knowledge.
 - S6: In the course of time they may rule over us altogether.
 - P: For example, we are unable to manage our machines.
 - Q: We already find it difficult to do without machines.
 - R: Machines should be fed properly and waited upon attentively; otherwise they refuse to work or cause destruction.
- S: Science has given us superhuman powers, which we do not use properly.

The proper sequence should be

- (a) SPRQ
- (b) PSQR
- (c) QRPS
- (d) SRPQ

- Which Indian businessman favoured 'healthy capitalism' in helping Gandhiji to work towards a 'common object'?
 - (a) Ghanshyam Das Birla
 - (b) Ambalal Sarabhai
 - (c) Sir Biren Mookerjee
 - (d) T. T. K. Krishnamachari
- The art piece "In Memoriam" was a creation of which one of the following European painters?
 - (a) Thomas Jones Barker
 - (b) Joseph Noel Paton
 - (c) Thomas Daniell
 - (d) Charles D'Oyly
- 146. Which one of the following can charge an insulator?
 - (a) Current electricity
 - (b) Static electricity
 - (c) Magnetic field
 - (d) Gravitational field
- 147. At 20°C, the speed of sound in water is approximately
 - (a) 330 m/s
 - (b) 800 m/s

- (c) 1500 m/s
 - (d) 5000 m/s
- 148. Which one of the following could the melting point of iron?
 - (a) 25°C
 - (b) 37°C
 - (c) 500°C
 - (d) 1500°C
- 149. Let us consider a copper wire having radius r and length l. Let its resistant be R. If the radius of another copper wire is 2r and the length is l/2 then the resistance of this wire will be
 - (a) R
 - (b) 2R
 - (c) R/4
 - (A) R/8
- 150. Basic scientific principle behind nuclear reactor is
 - (a) Nuclear fusion
 - (b) Controlled nuclear fusion
 - (c) Uncontrolled nuclear fission
 - Controlled nuclear fission

- 137. "Campos" and "Llanos", Tropical Savanna grasslands are generally found in
 - (a) Australia
 - (b) Central Africa
 - South America
 - (d) East Asia
- which one of the following Australian cities?
 - (a) Adelaide
 - (b) Darwin
 - (c) Hobart
 - (d) Brisbane
- 139. "Shamal" warm and dry wind is a "Local" wind found in
 - (a) East Asia
 - (b) West Coast of Africa
 - (c) Sahara of Africa
 - (d) Mesopotamia
 - "Inversion of Rainfall" is associated with
 - (a) Orographic rainfall
 - Convectional rainfall
 - (c) Cyclonic rainfall (Tropical)
 - (d) Cyclonic rainfall (Temperate)

- 141. Who was the author of the b'History of British India'?
 - (a) Charles Grant
 - (b) John Stuart Mill
 - (c) James Mill
 - (d) William Jones
- The Azamgarh Proclamation of Aug 25, 1857 stressed on which one of following issues?
 - (a) Hindu-Muslim divide
 - (b) Support to the English Government
 - (e) The return of the Badshahi
 - (d) The imposition of heavy Juma (revenue demand)
- 143. Which Viceroy had made the observation, "It's a beautiful world if wasn't for Gandhi"?
 - (a) Lord Irwin
 - (b) Lord Wavell
 - (c) Lord Mountbatten
 - (d) Lord Willingdon

The following 3 (three) items consist of two statements, Statement I and Statement II. Examine these two statements carefully and select the correct answer using the code given below:

Code:

- (a) Both the statements are individually true and Statement II is the correct explanation of Statement I
- (b) Both the statements are individually true and Statement II is NOT the correct explanation of Statement I
- (c) Statement I is true but Statement II is false
- (d) Statement I is false but Statement II is true

132. Statement I: Abul

Fazl shaped, represented and articulated the ideas associated with the reign of Akbar

Statement II: The qualities of Abul Fazl impressed Akbar who found the former suitable as an adviser and spokesperson for his policies

133. Statement I



: The Kisan manifesto adopted by the All India Kisan Sabha in August 1936 contained radical demands

Statement II: The All India Kisan Sabha was a part of the Congress and maintained close relationship with the Provincial Congress Committees

134. Statement I: The British ruled Ind through a moder bureaucracy headed b the Indian Civil Servic whose members wer recruited through mer



Statement II: The Indian Civil Service was based on the whol hearted participation of **Indians**

tion

based on open compet

- 135. Which one of the following is NO true in reference to Air mass?
 - Air mass forms either in tropica or in polar region
 - (b) Air mass develops on continent as well as over ocean
 - (c) Air mass develops in a cycloni condition
 - (d) Air mass changes the weather conditions
- 136. National Water Academy, a centre o excellence in training and capacity building in water resource, is located a
 - (a) New Delhi
 - (b) Kolkata
 - Pune
 - (d) Chennai

- 125. The equivalent weight of oxalic acid in C₂H₂O₄·2H₂O is
 - (a) 45

(6) 63

- (c) 90
- (d) 126
- 126. Which one of the following is NOT a west flowing river?
 - (a) Periyar
 - (b) Bharatpuzha
 - (c) Pamba

(6) Tamraparni

- 127. Which one of the following rivers was earlier known as "Vitasta"?
 - (a) Tista

(b) Jhelum

- (c) Tungabhadra
- (d) Bharatpuzha
- 128. River Sarda drains in the Northern Plains of Uttar Pradesh. Before entering in the Plains, Sarda is known as
 - (a) Saraswati
 - (b) Bhagirathi

(c) Kali

(d) Pindar

- "Mission Indradhanush" is related t
 - (a) Bullet train project
 - (b) Agriculture development
 - (c) Women empowerment

Full immunization

- 130. Which of the following is/are environmental effects of Rotation of Earth?
 - Daily or diurnal rhythm in d light and air temperature
 - 2. Flow path of both air and wa are turned consistently in a si ward direction
 - 3. The movement of the tides

Select the correct answer using code given below:

- (a) 1 and 2 only
- (b) 1 and 3 only

(e) 1, 2 and 3

- (d) 3 only
- 131. Who among the following historia have described the Quit India movement as a 'spontaneous revolution'.
 - (a) Gordon Johnson
 - (b) David Arnold

(c) F G Hutchins

(d) Peter Robb

- Which of the following statements is/are correct?
 - 1. In 1948, Burma was admitted to the United Nations and immediately supported the USA in the Cold War
 - 2. In 1948, Burma joined the United Nations but refused to denounce China as the aggressor in the Korean War

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
- 120. Who among the following presented 'The April Theses' to the Russian people in 1917?
 - (a) Stalin
 - (b) Trotsky
 - (c) Bukharin

(d) Lenin

- 121. Which one of the following statements is NOT correct for the given reaction?

 Fe(s) + CuSO₄(aq) → FeSO₄(aq) + Cu(s)
 - (a) Iron is the reducing agent
 - (b) The solution turns green in colour after the reaction

- (c) Copper is a more reactive than iron
- The reaction is an example redox reaction
- 122. Which one of the following is organic acid?
 - (a) Hydrochloric acid
 - (b) Nitric acid
 - (c) Acetic acid
 - (d) Sulphuric acid
- 123. Dinitrogen (N₂) and dioxygen (O₂) the main constituents of air but they not react with each other to fo oxides of nitrogen because
 - (a) the reaction requires initiati by a catalyst
 - (b) oxides of nitrogen are unstable
 - the reaction is endothermic ar requires very high temperature
 - (d) the stoichiometry of N₂ and O₂ air is not ideal for the reaction take place
- 124. Who among the following has explained the phenomenon of photo electric effect?
 - (a) Max Planck
 - (b) Albert Einstein
 - (c) Neils Bohr
 - (d) Ernest Rutherford

- 114. Brahmaputra and Indus rivers are antecedent rivers. Which one of the following may be the true definition of an antecedent drainage?
 - (a) Which follows the initial slope of the Himalaya
 - (b) Which existed before the Himalayan range came into existence
 - (c) Which followed the dip or rock beds of the Himalaya
 - (d) Which followed the strikes of rock beds of the Himalaya
- The Karachi resolution of Congress in 1931 advocated which one of the following issues?
 - (a) State shall not own or control key industries and services
 - (b) State shall handover the key industries and services to the Indian business groups
 - (c) State should allow the Indian business group to invest fifty per cent of the capital
 - (d) State shall own or control key industries and services
- 116. The treaty of Schonbrunn (1809) was signed after which one of the following battles?
 - (a) Battle of Austerlitz
 - (b) Battle of Tilsit
 - (c) Battle of Wagram
 - (d) Battle of Lisbon

- Which of the following stateme about The New Model Unions is/correct?
 - 1. The New Model Unions we formed in the 1850s
 - 2. The New Model Unions we formed in the 1880s
 - 3. The New Model Unions corprised a Labour Party idea
 - 4. The New Model Unions exclude women in the 1920s

Select the correct answer using the code given below:

- (a) 1
- (b) 2
- (c) 3 and 4
- (d) 3 only
- The Truman Doctrine of 1947 wa announced to achieve which one of the following?
 - (a) Containment of the USSR
 - (b) Increasing agricultural production in the USA
 - (c) Offering friendship to Europe
 - (d) Strengthening the UNO

Det.

107. The formula for conversion between Fahrenheit and Celsius is ${}^{\circ}F = X + (1.8 \times {}^{\circ}C)$ What is factor X?

(2) 32

- (b) 22
- (c) 98
- (d) 42
- 108. When a beam of white light passes through a glass prism, the colour of light beam that deviates the least is
 - (a) Blue

(b) Red

- (c) Green
- (d) Violet
- (109) LIGO stands for
 - (a) Laser Interferometer Gravitational wave Observatory
 - (b) Light Interferometer Gravitational wave Observatory
 - (c) Light Induced Gravity Observatory
 - (d) Laser Induced Gaseous Optics

110. A fuse wire must be

conducting and of low melting point

(b) conducting and of high melting point

- (c) insulator and of high melting p
 - (d) insulator and of low melting p
- 111. Kamarajar Port was commissioned 2001 to handle thermal coal requirements. It is situated along the coast which Indian State?
 - (a) Andhra Pradesh
 - (b) Odisha

(c) Tamil Nadu

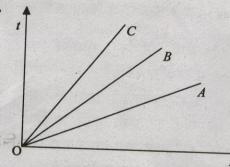
(d) Karnataka

- 112. Which one of the following Unit Territories of India is the smallest terms of geographical area?
 - (a) Daman and Diu
 - (b) Chandigarh
 - (c) Dadra and Nagar Haveli

(d) Lakshadweep

- 113. Which one of the following can be sai to be essentially related to 'Polar From Theory'?
 - (a) Anticyclone
 - (b) Tropical Cyclone
 - (c) Temperate Cyclone
 - (d) Inter Tropical Convergence

102.



The figure shown above gives the time (t) versus position (x) graphs of three objects A, B and C. Which one of the following is the correct relation between their speeds V_A , V_B and V_C , respectively at any instant (t > 0)?

(a)
$$V_A < V_B < V_C$$

$$V_A > V_B > V_C$$

$$(c) V_A = V_B = V_C \neq 0$$

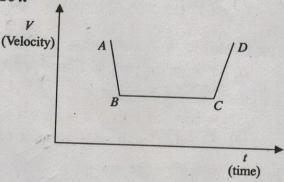
(d)
$$V_A = V_B = V_C = 0$$

103. 1 dyne (a unit of force in CGS system) equals to

- (a) 10^3 g cm/s²
- (b) 10^{-3} g cm/s²
- (c) 10^5 kg m/s^2

(d)
$$10^{-5} \text{ kg m/s}^2$$

104.



In the given velocity (V) versus time (t) graph, accelerated and decelerated motions are respectively represented by line segments

- (a) CD and BC
- (b) BC and AB

(CD and AB

(d) AB and CD

- 105. Which one of the following statemer regarding a thermos flask is N correct?
 - (a) The walls of flask are separated vacuum and made of glass wh is a poor conductor of heat
 - (b) The glass walls themselves has shiny surfaces
 - (c) The surface of inner wall radial good amount of heat and to surface of outer wall absorbs sort of the heat that is radiated from the inner wall
 - (d) The cork supports are poconductors of heat

106. 'Black hole' is a

- (a) huge black star which has zer acceleration due to gravity on it surface
- (b) star which has moderate acceleration due to gravity on its surface
- star which has collapsed into itself and has large acceleration due to gravity on its surface
- (d) star which has collapsed into itself and has zero acceleration due to gravity on its surface

- 96. Which one of the following is NOT a synthetic detergent?
 - (a) $CH_3(CH_2)_{10}CH_2OSO_3^-Na^+$
 - (b) $[CH_3(CH_2)_{15}-N-(CH_3)_3]^+Br^-$
 - (c) CH₃(CH₂)₁₆COO⁻ Na⁺
 - (d) CH₃(CH₂)₁₆ÇOO(CH₂CH₂O)_n CH₂CH₂OH
- 97. Which one of the following is an example of a clean fuel?
 - (a) Coke
 - (b) Propane
 - (c) Petrol
 - (d) Wax
- Which one of the following metals does NOT react with cold water?
 - (a) Calcium (Ca)
 - (b) Potassium (K)
 - (c) Magnesium (Mg)
 - (d) Sodium (Na)

- 99. In which of the following pairs are ions isoelectronic?
 - (a) Mg²⁺, Ar
 - (b) Na+, O2-
 - (c) A13+, C1-
 - (d) K+, Ne
- 100. Which one of the following is used a binder in paints?
 - (a) Titanium dioxide
 - (b) Novolac
 - (c) Phthalocyanine
 - (d) Silicones
- 101. The Sun is seen little before it rises an for a short while after it sets. This because of
 - (a) total internal reflection
 - (b) atmospheric refraction
 - (a) apparent shift in the direction o
 - (d) dispersion

- **90.** Which one of the following organisms represents the primary consumer category in an ecosystem?
 - (a) Caterpillar
 - (b) Crabapple tree
 - (c) Frog
 - (d) Sparrowhawk
- 91. Spring tides refer to
 - (a) greatest difference in the sea level at high and low tides
 - (b) lowest difference in the sea level at high and low tides
 - (c) no difference in the sea level at high and low tides
 - (d) counteraction of gravitational pull of the Sun to that of Moon
 - **92.** Which one of the following energy is stored in the links between the atoms?
 - (a) Nuclear energy
 - (b) Chemical energy
 - (c) Potential energy
 - (d) Thermal energy

- 93. The light energy escaping from the State can be spread by
 - a shower of rain drops
 - (b) a plane mirror
 - (c) a convex lens
 - (d) a combination of a convex le and a concave lens
- 94. The correct sequence of energy transf that occurs when an apple falls to the ground is
 - (a) Gravitational potential energy heat energy to air → kinet
 energy → heat energy to groun
 and apple → sound energy
 - (b) Gravitational potential energy sound energy → kinetic energy heat energy to air → heat energy to ground and apple
 - Gravitational potential energy kinetic energy → heat energy air → heat energy to ground an apple → sound energy
 - (d) Gravitational potential energy kinetic energy → sound energy heat energy to air → heat energy to ground and apple
- 95. Which one of the following minera is used as a fuel in nuclear pow stations?
 - (a) Bauxite
 - (b) Quartz
 - (c) Feldspar
 - (d) Pitchblende

- **82.** Which one of the following ocean currents is NOT a cold ocean current?
 - (a) Canary current
 - (b) California current
 - (c) Kuroshio current
 - (d) Oyashio current
- 83. What is the time gap in occurrence of two successive tides at a given place on the ocean surface?
 - (a) 12 hours
 - (b) 12 hours 26 minutes
 - (c) 24 hours
 - (d) 24 hours 52 minutes
- 84. Tooth enamel is made up of which one of the following calcium compounds?
 - (a) Calcium carbonate
 - (b) Calcium sulphate
 - (c) Calcium hydroxide
 - (d) Calcium phosphate
 - 85. Suppose there are two planets, 1 and 2, having the same density but their radii are R_1 and R_2 respectively, where $R_1 > R_2$. The accelerations due to gravity on the surface of these planets are related as
 - (a) $g_1 > g_2$
 - (b) $g_1 < g_2$
 - (c) $g_1 = g_2$
 - (d) Can't say anything

- **86.** Which one of the following of organelles does NOT possess nucl acid?
 - (a) Nucleolus
 - (b) Chloroplast
 - (c) Ribosome
 - (d) Plasma Membrane
- Which one of the following of organelles does NOT possess its of genetic material encoding proteins:
 - (a) Ribosome
 - (b) Nucleus
 - (c) Mitochondria
 - (d) Chloroplast
- Which one of the following is NO component of conducting tissue plants?
 - (a) Fibres
 - (b) Tracheids
 - (e) Pericycle
 - (d) Sieve tubes
- Which one of the following organis has vascular tissues?
 - (a) Cladophora
 - (b) Penicillium
 - (c) Marsilea
 - (d) Anabaena

- 76. On exposure to moist air, copper gains a green coat on its surface due to formation of which one of the following compounds?
 - (a) Copper carbonate
 - (b) Copper oxide
 - (c) Copper sulphate
 - (d) Copper nitrate
- 77. Which one of the following will NOT produce carbon dioxide on reacting with an aqueous solution of hydrochloric acid?
 - (a) Limestone

ime a covi that

- (b) Quick Lime
- (c) Chalk
- (d) Marble
- 78. Which one of the following substances is NOT a mixture?
 - (a) Ice
 - (b) Ice-cream
 - (c) Air
 - (d) Honey
- 79. Which one of the following is an example of Salt-Crystal growth?
 - (a) Chemical weathering
 - (b) Physical weathering
 - (c) Biological weathering
 - (d) Bio-chemical weathering

- 80. Which one of the following is the correct sequence of proved correserves in the Indian States decreasing order?
 - (a) Jharkhand, Chhattisgarh, Odish West Bengal
 - (b) Jharkhand, Odisha, Chhattisgar West Bengal
 - (c) Odisha, West Bengal, Jharkhan Chhattisgarh
 - (d) Odisha, Chhattisgarh, W Bengal, Jharkhand
- 81. Consider the following statement relating to Richter scale:
 - It was devised in 1935 by Charl
 F. Richter
 - 2. It describes the quantity of energy released by a single earthquake
 - 3. Richter Scale has no upper limi

Which of the statements given about is/are correct?

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

(d) 1, 2 and 3

- 70. Which one of the following statements regarding Cholera is correct?
 - (a) Cholera is a disease that causes loss of memory
 - (b) Cholera is a disease of muscles due to consumption of alcohol
- Cholera is a disease due to consumption of contaminated food or water
 - (d) Cholera is a genetic disease
- Two metallic wires A and B are made using copper. The radius of wire A is r while its length is l. A dc voltage V is applied across the wire A, causing power dissipation, P. The radius of wire B is 2r and its length is 2l and the same dc voltage V is applied across it causing power dissipation P₁. Which one of the following is the correct relationship between P and P₁?
 - (a) $P=2P_1$
 - (b) $P = P_1/2$
 - (c) P = 4P
 - (d) $P = P_1$
- **72.** Consider the following statements about a solenoid:
 - 1. The magnetic field strength in a solenoid depends upon the number of turns per unit length in the solenoid
 - 2. The magnetic field strength in a solenoid depends upon the current flowing in the wire of the solenoid
 - 3. The magnetic field strength in a solenoid depends upon the diameter of the solenoid

Which of the statements given aboare correct?

- (a) 1, 2 and 3
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1 and 2 only
- 73. Light year is a unit of measurement
 - (a) very large distances
 - (b) time interval in years
 - (c) amount of light received on eart in a year
 - (d) mass of atoms
- The focal length of the objective len of a telescope is 50 cm. If the magnification of the telescope is 25, then the focal length of the eye-piece is
 - (a) 12.5 cm
 - (b) 5 cm
 - (c) 2 cm
 - (d) 10 cm
- 75. Which one of the following forces is non-central and non-conservative?
 - (a) Frictional force
 - (b) Electric force
 - (c) Gravitational force
 - (d) Mechanical force

- Which of the following pairs of old names and new names of islands in India is/are correctly matched?
 - 1. Ross Island: Shaheed Dweep
 - 2. Neil Island : Netaji Subhas Chandra Bose Dweep
 - 3. Havelock : Swaraj Dweep Island

Select the correct answer using the code given below:

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (e) 1 and 2 only
- (d) 3 only
- 65. Who among the following was posthumously conferred with the Ashoka Chakra, India's highest peacetime gallantry award, in 2019?
 - (a) Jyoti Prakash Nirala
 - (b) Nazir Ahmad Wani
 - (c) Hangpan Dada
 - (d) Mohan Nath Goswami
- 66. As per the code of the nomenclature, which one of the following is the correct way of writing a biological name?
 - (a) Amoeba Proteus
 - (b) Amoeba proteus
 - (c) amoeba proteus
 - (d) Amoeba Proteus

- 67. Which one of the following statements regarding Electrocardiogram is correct?
 - (a) Electrocardiogram is graphical representation of electrical activity of cornea
 - (b) Electrocardiogram is graphical representation of activity of kidney
 - (c) Electrocardiogram is graphical representation of activity of brain
 - Electrocardiogram is graphical representation of electrical activity of heart
- Which one of the following statements regarding Penicillin is correct?
 - (a) Penicillin resistant bacteria can store this antibiotic in vacuole
 - (b) Penicillin resistant bacteria can degrade this antibiotic by an enzyme called β-lactamase
 - (c) Penicillin resistant bacteria can degrade this antibiotic by an enzyme called lactic acid dehydrogenase
 - (d) Penicillin is not absorbed by bacteria; so most bacteria are resistant
- 69. Which one of the following organelles of mammalian cell is rich in hydrolytic enzymes?
 - (a) Mitochondria
 - (b) Ribosomes
 - (c) Lysosome
 - (d) Nucleus

- 57. IMBEX is a joint exercise conducted regularly between Armies of India and
 - (a) Malaysia
 - (b) Maldives
 - (c) Mauritius
 - (d) Myanmar
- Who among the following was awarded The Hindu Prize in Fiction category for the year 2018?
 - (a) Neelum Saran Gour
 - (b) N Kalyan Raman
 - (c) Manoranjan Byapari
 - (d) Arunav Sinha
- Who among the following was appointed as head of the seven member committee to look into revenue shortfall being faced by the states after the GST roll-out in India and suggest steps for augmenting collections?
 - (a) Himanta Biswa Sharma
 - (b) Thomas Isaac
 - (c) Sushil Modi
 - (d) Capt Abhimanyu

- The 15th Pravasi Bharatiya Diva-2019 was held in
 - (a) New Delhi
 - (b) Gandhi Nagar
 - (c) Prayagraj
 - (d) Varanasi
- 61. Which one of the following cities was named by UNESCO as Worl Capital of Architecture for 2020?
 - (a) Tokyo
 - (b) Johannesburg
 - (c) Rio de Janerio
 - (d) New Delhi
- 62. Who among the following was named ICC's emerging player of the year 2018?
 - (a) Rishabh Pant
 - (b) Josh Hazlewood
 - (c) Hasan Ali
 - (d) Mustafizur Rahman
- 63. India's first private sector Howitze gun-making unit is located at
 - (a) Jamshedpur

Wrong

- (b) Kolkata
- (c) Hazira sight
- (d) Gwalior

PART-B

- **51.** An Election Commissioner can be removed from office on the recommendation of
 - (a) The Chief Justice of India
 - (b) The Chief Election Commissioner
 - (c) The President of India
 - (d) The Parliament
- 52. Which one of the following statements regarding the Rajya Sabha is NOT correct?
 - (a) Its members are elected by the elected members of the Legislative Assembly of a State
 - (b) The election follows the system of proportional representation by means of a single transferable vote
 - (c) 1/3rd of its members retire after every two years
 - (d) It is a permanent body, but can be dissolved earlier by the President
- 53. Fundamental right guaranteed under which one of the following Articles of the Constitution of India is available only to the citizens of India?
 - (a) Article 19
 - (b) Article 20
 - (c) Article 21
 - (d) Article 22

- 54 The treaty of Yandabo was signed
 - (a) 1826
 - (b) 1825
 - (c) 1824
 - (d) 1823
- 55. In the Manusmriti which form marriage results from the "Volunta union of a maiden and her lover"
 - (a) Eighth form
 - (b) Fifth form
 - (c) Seventh form
 - (d) Sixth form
- 56. Consider the following description of the Samadhi of a former Print Minister of India:

Central Samadhi platform comprise nine square black polished grani solid stone blocks, capped with 'Diya' in the centre. The number nin holds significance and represents the navarasas, navaratras and navagraha Then placement of the nine-square Samadhi is in a circular lotus shape pattern. The nine-square platform accessed in four cardinal directions to pathways made in white composite tile so that the floor does not get heated.

Identify the Samadhi:

- (a) Shakti Sthal
- (b) Shantivan
- (c) Sadaiv Atal
- (d) Veer Bhumi

- 46. According to the author, India
 - (a) has never been one nation
 - (b) has been an aggregate of several nations
 - has always been one nation along with differences
 - (d) became a nation after the British came
- 47. Why did the great sages of India establish pilgrimages in the different corners of the country?
 - (a) Because they wanted to push people to travel to different places
 - Because they could observe the underlying unity of the country as made by nature
 - (c) Because they themselves had travelled to these places
 - (d) Because they wanted people to be religious everywhere
- **48.** In the passage, the author's attitude towards the railways is
 - (a) critical

- (b) sympathetic
- (c) indifferent
- (d) apathetic
- 49. What does the author mean when says that "whose hearts were agle with righteousness had the Ganges their own homes"?
 - (a) One need not visit the Ganges take holy bath
 - (b) The Ganges has been polluted, one should bath at home
 - (c) One should take a holy dip in the Ganges to purify one's heart
 - The purity of heart is superior observance of any ritual
- 30. The paragraph is written in a
 - (a) dialogic style
 - (b) prescriptive style
 - (c) descriptive style
 - (d) analytical style

45. the father also $\frac{\text{in his quest for justice}}{P}$ $\frac{\text{by the system}}{R}$ $\frac{\text{feels let down}}{S}$

(a) SQPR

(b) PSRC

- (c) SQRP
- (d) PQRS

COMPREHENSION

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

Passage

I do not wish to suggest that because we were one nation we had no differences, but is submitted that our leading men travelled throughout India either on foot or in bulloc carts. They learned one another's languages and there was no aloofness amongst there What do you think could have been the intention of those farseeing ancestors of ours wh established Setubandha (Rameshwar) in the South, Jagannath in the East and Hardwar the North as places of pilgrimage? You will admit they were no fools. They knew th worship of God could have been performed just as well at home. They taught us the those whose hearts were aglow with righteousness had the Ganges in their own home But they saw that India was one undivided land so made by nature. They, therefor argued that it must be one nation. Arguing thus, they established holy places in variou parts of India, and fired the people with an idea of nationality in a manner unknown i other parts of the world. And we Indians are one as no two Englishmen are. Only yo and I and others who consider ourselves civilized and superior persons imagine that w are many nations. It was after the advent of railways that we began to believe i distinctions, and you are at liberty now to say that it is through the railways that we are beginning to abolish those distinctions. An opium-eater may argue the advantage of opium-eating from the fact that he began to understand the evil of the opium habit after having eaten it. I would ask you to consider well what I had said on the railways.

42 S1:	The Bi	itish	rule	in	India	has
	brought	abo	ut m	oral	, mate	erial,
	cultural	and	spiritu	al r	uinatio	n of
	this gre	at cou	intry.			

S6: We are not to kill anybody but it is our *dharma* to see that the curse of this Government is blotted out.

P: I regard this rule as a curse.

Q: Sedition has become my religion.

R: Ours is a non-violent battle.

S: I am out to destroy this system of Government.

The proper sequence should be

(a) SPRQ

(b) PSQR

(c) QRPS

(d) SRPQ

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 rearrange the jumbled parts of the sentence and mark your response accordingly.

the urban to	car body elections	unidentified gunmen	and injured another during
	P	Q	R
shot dead tv	vo workers		
S	to.		
(b) PQSI	P		
(b) P Q S	R		
(c) SPR	Q	to be a server	
(d) RPS	Q	And the state of t	

44. both intense political and P Q

of syncretic accomplishments R religious contestation and S

- (a) SQPR
- (b) PQSR
- (c) SQRP
- (d) QPSR

PART - A

SYNONYMS

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

- 1. Some people complain when they encounter a small misfortune in the course of their thoroughly happy life.
 - (a) run into
 - (b) run away
 - (c) run down
 - (d) run with
- 2. This world is full of miseries.
 - (a) indifferent love
 - (b) perfect happiness
 - great suffering
 - (d) moderate sympathies
- A glance at a beautiful object gives us delight.
 - (a) wisdom
 - (b) happiness
 - (c) purity
 - (d) peace
- 4. It is terrible for people to die of starvation.
 - (a) starch
 - (b) staple
 - (c) plenty
 - (d) hunger
- The university has constituted a grievance redressal committee to look into the matter.
 - (a) depression
 - (b) complaint
 - (c) abrasion
 - (d) gratefulness

- 6. Rakesh delivered a slanderous speech
 - (a) abusive
- (b) praiseworthy
 - (c) moderate
 - (d) inspiring
- 7. Suddenly, the sky was darkened by a gigantic bird.
 - (a) winged
 - (b) small
 - (c) tiny
 - (a) enormous
- 8. To <u>abolish</u> poverty would be to destroy the soil upon which mankind produces the virtues conducive to higher civilization
 - (a) detest
 - (b) eradicate
 - (c) nurture
 - (d) assimilate
- The Arabs who are not in the cities live in the desert throughout the year, shifting from one oasis to another.
 - (a) sandbank
 - (b) mound
 - (c) dune
 - (d) spring
- 10. The <u>various</u> facets of life can be found reflected in a large city.
 - (a) several
 - (b) similar
 - (c) valuable
 - (d) singular