

PART – A

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).

1. Opening his letters, (a) reading them carefully and sending for his clerk, (b)
he dictated answers with them. (c) No error (d)
2. He was my school-friend (a) but becoming a great man, (b)
he has grown proud enough to forget his old friends. (c) No error (d)
3. Rabindranath Tagore, (a) a Nobel laureate and the author of the national anthem, (b)
found Shantiniketan (c) No error. (d)
4. The art of printing was introduced into England (a) during the reign of Edward IV (b)
By William Caxton, a native of Kent (c) No error (d)
5. From thirty years (a) He devoted himself to public affairs (b) without taking a holiday (c) No error (d)
6. If Ramesh will be promoted (a) he will get (b) a higher salary (c) No error (d)
7. My brother goes (a) to the coffee (b) five day week (c) No error (d)
8. If you lend Mohan a pen (a) he will lend it to someone else (b) and never you will get it back (c)
No error (d)
9. One of the most widely spread (a) bad habits (b) is the use of tobacco (c) No error (d)
10. A great part (a) of Arabia (b) is desert (c) No error (d)

SYNONYMS

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

11. 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
12. This world is full of miseris
A. indifferent love
B. perfect happiness
13. A glance at a beautiful object gives us delight
A. wisdom B. happiness
C. purity D. peace
14. It is terrible for people to die of starvation.
A. starch B. staple

- C. plenty D. hunger
15. The university has constituted a grievance redressal committee to look into the matter.
A. depression B. complaint
C. abrasion D. gratefulness
16. Rakesh delivered a slanderous speech
A. Abusive B. praiseworthy
C. moderate D. inspiring
17. Suddenly, the sky was darkened by a gigantic bird.
A. winged B. small
C. tiny D. enormous
18. To abolish 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
19. 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
20. The various facets of life can be found reflected in a large city.
A. several B. similar
C. valuable D. singular

ANTONYMS

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

21. Ramesh is very dubious character
A. shady B. suspicious
C. trustworthy D. doubtful
22. Do not indulge in unmindful activities, please.
A. vigilant B. careless
C. stupid D. fatuous
23. He is suffering from a curable disease.
A. remediable B. treatable
C. terminal D. operable
24. He was born on a very auspicious day.
A. propitious B. fortunate
C. ominous D. opportune
25. He has deeper hostility towards Mohan.
A. animosity B. belligerence
C. malice D. friendship
26. His life is rather monotonous.
A. exciting B. dreary
C. tedious D. uneventful
27. Maebeth is a morally repulsive character
A. abominable B. attractive
C. abnoxious D. ugly
28. The serene 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
30. Sohan is a vain person.
A. modest B. arrogant
C. conceited D. proud

IDIOMS AND PHRASES

Directions : 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

COMPREHENSION

Directions : In this section you have a passage. After the passage, you will find some 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 of the author only.

Passage

I do not wish to suggest that because we were one nation we had no differences, but it is submitted that our leading men travelled throughout India either on foot or in bullock-carts. They learned one another's languages and there was no aloofness amongst them. What do you think could have been the intention of those farseeing ancestors of ours who established Setubandha (Rameshwar) in the South, Jagannath in the East and Haridwar in the North as places of pilgrimage? You will admit they were no fools. They knew that worship of God could have been performed just as well at home. They taught us that those whose hearts were aglow with righteousness had the Ganges in their own homes. But they saw that India was one undivided land so made by nature. They, therefore, argued that it must be one nation. Arguing thus, they established holy places in various parts of India and fired the people with an idea of nationality in a manner unknown in other parts of the world. And we Indians are one as no two Englishmen are. Only you and I and others who consider ourselves civilized and superior persons imagine that we are many nations. It was after the advent of railways that we began to believe in 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 after 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.

41. According to the author, India
- A. has never been one nation
 - B. has been an aggregate of several nations
 - C. has always been one nation along with differences
 - D. became a nation after the British came
42. 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.
 - B. 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
43. In the passage, the author's attitude towards the railways is
- A. critical
 - B. sympathetic
 - C. indifferent
 - D. apathetic
44. What does the author mean when he says that "whose hearts were aglow with righteousness had the Ganges in their own homes"?
- A. One need not visit the Ganges to take holy bath
 - B. The Ganges has been polluted, so one should bath at home
 - C. One should take a holy dip in the Ganges to purify one's heart
 - D. The purity of heart is superior to observance of any ritual
45. The paragraph is written in a
- A. dialogic style
 - B. prescriptive style
 - C. descriptive style
 - D. analytical style

FILL IN THE BLANK

Directions : Each of the following sentences in this section has a blank space and four words or group of four 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.

46. _____ forests prevent erosion.
 A. Lean B. Dense
 C. Sparse D. Tidy
47. Three people were arrested and an illegal arms unit was _____ by the police in a raid.
 A. revealed B. searched
 C. discovered D. busted
48. A woman got into the car and _____.
- A. drove off B. broke down
 C. rode in D. drove in
49. The lecture was not very interesting. In fact I _____ in the middle of it.
 A. showed off B. put off
 C. dozed off D. plugged off
50. The cops _____ murder by kin.
 A. suspect B. afford
 C. manage D. administer

PART-B

51. Which one of the following cell organelles does NOT possess nucleic acid?
 A. Nucleolus
 B. Chloroplast
 C. Ribosome
 D. Plasma Membrane
52. Which one of the following cell organelles does NOT possess its own genetic material encoding proteins?
 A. Ribosome B. Nucleus
 C. Mitochondria D. Chloroplast
53. Which one of the following is NOT a component of conducting tissue in plants?
 A. Fibres B. Tracheids
 C. Pericycle D. Sieve tubes
54. Which one of the following organisms has vascular tissues?
 A. Cladophora B. penicillium
 C. Marsilea D. Anabaena
55. Which one of the following organisms represents the primary consumer category in an ecosystem ?
 A. Caterpillar
 B. Crabapple tree
 C. Frog
 D. Sparrowhawk
56. 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
57. 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
58. The light energy escaping from the sun can be spread by
 A. a shower of rain drops
 B. a plane mirror
 C. a convex lens
 D. a combination of a convex lens and a concave lens
59. The correct sequence of energy transfer that occurs when an apple falls to the ground is
 A. Gravitational potential energy → heat energy to air → kinetic energy → heat energy to ground and apple → sound energy
 B. Gravitational potential energy → sound energy → kinetic energy → heat energy to air → heat energy to ground and apple
 C. Gravitational potential energy → kinetic energy → heat energy to air → heat energy to ground and apple → sound energy
 D. Gravitational potential energy → kinetic energy → sound energy → heat energy to air → heat energy to ground and apple
60. Which one of the following minerals is used as a fuel in nuclear power stations?
 A. Bauxite B. Quartz
 C. Feldspar D. Pitchblende
61. Which one of the following is NOT a synthetic detergent?
 A. $\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2\text{OSO}_3^-\text{Na}^+$
 B. $[\text{CH}_3(\text{CH}_2)_{15}\text{-N-(CH}_3)_3]^+\text{Br}^-$
 C. $\text{CH}(\text{CH}_2)_{16}\text{COO}^-\text{Na}^+$

- D. $\text{CH}(\text{CH}_2)_{16}\text{COO}(\text{CH}_2\text{CH}_2\text{O})_n\text{CH}_2\text{CH}_2\text{OH}$
62. Which one of the following is an example of a clean fuel?
 A. Coke B. Propane
 C. Petrol D. Wax
63. Which one of the following metals does NOT react with cold water?
 A. Calcium (Ca)
 B. Potassium (K)
 C. Magnesium (Mg)
 D. Sodium (Na)
64. In which of the following pairs are the ions isoelectronic?
 A. Mg^{2+} , Ar B. Na^+ , O^{2-}
 C. Al^{3+} , C^{4-} D. K^+ , Ne
65. Which one of the following is used as a binder in paints?
 A. Titanium dioxide
 B. Novalac
 C. Phthalocyanine
 D. Silicones
66. Which one of the following is NOT true in reference to air mass?
 A. Air mass forms either in tropical or in polar region
 B. Air mass develops on continents as well as over ocean
 C. Air mass develops in a cyclonic condition
 D. Air mass changes the weather conditions
67. National Water Academy, a centre of excellence in training and capacity building in water resource, is located at
 A. New Delhi B. Kolkata
 C. Pune D. Chennai
68. "Campos" and "Llanos", Tropical Savanna grasslands are generally found in
 A. Australia B. Central Africa
 C. South America D. East Asia
69. "Viticulture" is a common feature of which one of the following Australian cities?
 A. Adelaide B. Darwin
 C. Hobart D. Brisbane
70. "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
71. "Inversion of Rainfall" is associated with
 A. Orographic rainfall
 B. Conventional rainfall
 C. Cyclonic rainfall (Tropical)
 D. Cyclonic rainfall (Temperature)
72. Who was the author of the book 'History of British India'?
 A. Charles Grant B. John Stuart Mill
 C. James Mill D. William Jones
73. The Azamgarh Proclamation of August 25, 1857 stressed on which one of the following issues?
 A. Hindu-Muslim divide
 B. Support to the English Government
 C. The return of the Badshahi
 D. The imposition of heavy Jumas (revenue demand)
74. Which Viceroy had made the observation, "it's a beautiful world if it wasn't for Gandhi"?
 A. Lord Irwin
 B. Lord Wavell
 C. Lord Mountbatten
 D. Lord Willingdon
75. 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
76. 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
77. Which one of the following can charge an insulator?
 A. Current electricity
 B. Static electricity
 C. Magnetic field
 D. Gravitational field
78. 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
79. Which one of the following could be the melting point of iron?
 A. 25°C B. 37°C
 C. 500°C D. 1500°C

- Statement II : The qualities of Abul Fazl impressed Akbar who found the former suitable as an adviser and spokesperson for his policies
94. 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
95. Statement I : The British ruled India through a modern bureaucracy headed by the Indian Civil service, whose members were recruited through merit based on open competition
Statement II : The Indian Civil Service was based on the whole hearted participation of Indian
96. Two metallic wires A and B are made using copper. The radius of wire A is r while its length is l . A de 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 de voltage V is applied across it causing power dissipation P_1 . Which one of the following is the correct relationship between P and P_1 ?
- A. $P = 2P_1$ B. $P = P_1/2$
C. $P = 4P_1$ D. $P = P_1$
97. 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 upon the diameter of the solenoid
- Which of the statements given above are correct?
- A. 1, 2 and 3 B. 1 and 3 only
C. 2 and 3 only D. 1 and 2 only
98. Light year is a unit of measurement of
- A. very large distances
B. time interval in years
C. amount of light received on earth in a year
D. mass of atoms
99. The focal length of the objective lens of a telescope is 50cm. 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
100. Which one of the following forces is non-central and non-conservative?
- A. Frictional force
B. Electric force
C. Gravitational force
D. Machanical force
101. 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
102. Which one of the following will NOT produce carbon dioxide on reacting with an aqueous solution of hydrochloric acid?
- A. Limestone B. Quick lime
C. Chalk D. Marble
103. Which one of the following substances is NOT a mixture?
- A. Ice B. Ice-cream
C. Air D. Honey
104. 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
105. Which one of the following is the correct sequence of proved coal reserves in the Indian states in decreasing order?
- A. Jharkhand, Chhattisgarh, Odisha, West Bengal
B. Jharkhand, Odisha, Chhattisgarh, West Bengal
C. Odisha, West Bengal, Jharkhand, Chhattisgarh
D. Odisha, Chhattisgarh, West Bengal, Jharkhand
106. Consider the following statements relating to Richer scale:
1. It was devised in 1935 by Charles F. Richter
 2. It describes the quantity of energy released by a single earthquake

3. Richer Scale has no upper limit
Which of the statements given above is/are correct?

- A. 1 only B. 1 and 2 only
C. 2 and 3 only D. 1, 2 and 3

107. 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

108. What is the time gap in occurrence of two successive at a given place on the ocean surface?

- A. 12 hours
B. 12 Hours 26 minutes
C. 24 hours
D. 24 hours 52 minutes

109. 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

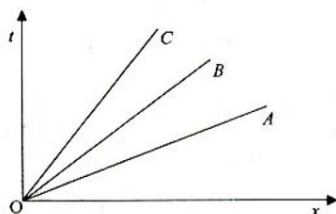
110. Suppose there are two planets, 1 and 2, having the same density but their radii are R_1 and R_2 respectively, where $R_1 > R_2$. The accelerations due to gravity on the surface of these planets are related as

- A. $g_1 > g_2$
B. $g_1 < g_2$
C. $g_1 = g_2$
D. Can't say anything

111. The sun is seen before it rises and for a short while after it sets. This is because of

- A. total internal reflection
B. atmosphere refraction
C. apparent shift in the direction of Sun
D. dispersion

112.



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

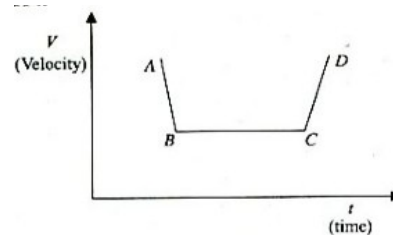
the correct relation between their speeds V_A , V_B and V_C respectively at any instant ($t > 0$)?

- A. $V_A < V_B < V_C$
B. $V_A > V_B > V_C$
C. $V_A = V_B = V_C \neq 0$
D. $V_A = V_B = V_C = 0$

113. 1 dyne (a unit of force in CGS system) equals to

- A. 10^3 g cm/s^2 B. 10^{-3} g cm/s^2
C. 10^5 kg m/s^2 D. 10^{-5} kg m/s^2

114.



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
C. CD and AB D. AB and CD

115. Which one of the following statements regarding a thermos flask is NOT correct?

- A. The walls of flask are separated by vacuum and made of glass which is a poor conductor of heat
B. The glass walls themselves have shiny surfaces
C. The surface of inner wall radiates good amount of heat and the surface of outer wall absorbs some of the heat that is radiated from the inner wall
D. The cork supports are poor conductors of heat

116. 'Black hole' is a

- A. huge black star which has zero acceleration due to gravity on its surface
B. star which has moderate acceleration due to gravity on its surface
C. 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

117. The formula for conversion between Fahrenheit and Celsius is

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
130. Who among the following presented 'The April Theses' to the Russian people in 1917?
A. Stalin B. Trotsky
C. Bukharin D. Lenin
131. 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
132. 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 permanent body, but can be dissolved earlier by the President
D. It is a permanent body, but can be dissolved earlier by the President
133. 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
134. The treaty of Yandabo was signed in
A. 1826 B. 1825
C. 1824 D. 1823
135. In the Manusmriti which form of marriage results from the "Voluntary union of a maiden and her lover"?
A. Eighth form B. Fifth form
C. Seventh form D. Sixth form
136. Consider the following description of the Samadhi of a former Prime Minister of India:
Central Samadhi platform comprises nine square Mack polished granite solid Stone blocks, capped with a Diya' in the centre. The number nine holds significance and represents the navarasas, navarairas and navagrahas. Then placement of the nine-square Samadhi is in a circular lotus shaped pattern. The nine-square platform is accessed in four cardinal directions by pathways made in white composite tiles so that the floor does not get heated.
Identify the Samadhi :
A. Shakti Sthal B. Shantivan
C. Sadaiv Atai D. Veer Bhumi
137. IMBEZ is a joint exercise conducted regularly between armies of India and
A. Malaysia B. Maldives
C. Mauritius D. Myanmar
138. 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
139. 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
140. The 15th Pravasi Bharatiya Divas, 2019 was held in
A. New Delhi B. Gandhi Nagar
C. Prayagraj D. Varanasi
141. Which one of the following cities was named by UNESCO as world Capital of Architecture for 2020?
A. Tokyo B. Johannesburg
C. Rio de Janerio D. New Delhi
142. 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
143. India's first private sector howitzer gun-making unit is located at
A. Jamshedpue B. Kolkata
C. Hazira D. Gwalior
144. Which of the following pairs of old names and new names of islands in India is/are correctly matched?
I. Ross island : Shaheed Dweep
II. Neil Island : Netaji Subhas

Chnadra Bose
Dweep

III. Havelock Island : Swaraj Dweep

Select the correct answer using the code given below :

- A. 1, 2 and 3 B. 2 and 3 only
C. 1 and 2 only D. 3 only
145. 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
146. 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. amorba proteus
D. Amoeba Proteus
147. 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
D. Electrocardiogram is graphical representation of electrical activity of heart
148. 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
149. Which one of the following organelles of mammalian cell is rich in hydrolytic enzymes?
- A. Mitochondria B. Ribosomes
C. Lysosome D. Nucleus
150. 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
C. Cholera is a disease due to consumption of contaminated food or water
D. Cholera is a genetic disease.