UPSC - National Defence Academy & Naval Academy Examination (I), 2016

General Ability Test Question Paper Held on: 17.04.2016

PART-A

Sentence Improvement

Directions: In this section, look at the underlined part of each sentence. Below each sentence are given three possible substitutions for the underlined part. If one of them (a), (b) or (c) is better than the underlined part, indicate your response on the Answer Sheet against the corresponding letter (a), (b) or (c). If none of the substitutions improves the sentence, indicate (d) as your response on the Answer Sheet. Thus a "No improvement" response will be signified by the letter (d).

- When he heard the rhetorical speech of the leader, he was carried along by his enthusiasm.
 - (a) carried aloft
 - (b) carried down
 - (c) carried away
 - (d) No improvement
- After the heavy rains last week, the water in the lake raised another two feet.
 - (a) rose another two feet
 - (b) arisen another two feet
 - (c) would raise another two feet
 - (d) No improvement
- 3. One can live and work in a town without being aware of the daily march of the sun across the sky without never seeing the moon and stars.
 - (a) seldom
 - (b) hardly
 - (c) ever
 - (d) No improvement
- Applications of those who are graduates will be considered.
 - (a) whom are graduates
 - (b) whose are graduates
 - (c) whom are only graduates
 - (d) No improvement

- It is raining heavily all through this week.
 - (a) has rained
 - (b) rains
 - (c) rained
 - (d) No improvement
- The sparrow took no notice about the bread.
 - (a) notice of
 - (b) notice from
 - (c) notice to
 - (d) No improvement
- 7. As he spoke about his achievements, his high claims amused us.
 - (a) big
 - (b) tall
 - (c) long
 - (d) No improvement
- We ought to stand for what is right.
 - (a) stand at
 - (b) stand on
 - (c) stand up
 - (d) No improvement
- 9. He enjoys to tell stories to children.
 - (a) how to tell stories
 - (b) telling stories
 - (c) to narrate stories
 - (d) No improvement
- 10. In a few minutes' time, when the clock strikes six, I would be waiting here for an hour.
 - (a) shall be waiting on
 - (b) shall have been waiting
 - (c) shall wait
 - (d) No improvement

Selecting Words

sente after consi indic	ctions: In this section, each of the following nees has a blank space and four words given the sentence. Select whichever word you der most appropriate for the blank space and ate your response in the Answer Sheet dingly.	15.	Would you mind to the Principal how the trouble started? (a) remarking (b) saying (c) explaining (d) talking
11.	When the bus was at full speed, its brakes failed and an accident was (a) inevitable (b) undeniable (c) fatal (d) miserable	16.	Vaccination will make people immune certain diseases for a given period. (a) against (b) to (c) with (d) for
12.	To explain his design to his visitors, the architect a simple plan on the blackboard. (a) built (b) finalised (c) sketched (d) arranged		The two boys looked so alike that it was impossible to between them. (a) discriminate (b) discern (c) distinguish (d) identify The campers their tents at the
13.	Though Bonsai, a well-known art form, originated in China, it was by the Japanese. (a) cultivated (b) finished (c) perfected (d) enlarged	19.	base of the mountain. (a) installed (b) dug (c) pitched (d) established The enemy had captured him and his life was
14.	He is greatly admired for hisbehaviour. (a) decrepit (b) decadent		at stake, still he refused to the state secrets. (a) divulge (b) divert
	(c) decorative (d) decorous		(c) indulge (d) invert

(3-D)

B-OEBA-P-LEW

Synonyms

Directions: Each item in this section consists of an underlined word in given sentences. Each sentence is followed by four words. Select the word which is most similar in meaning to the underlined word and mark your response in the Answer Sheet accordingly.

- 20. Suddenly there was a bright flash, followed by a deafening explosion.
 - (a) dangerous
 - (b) terrifying
 - (c) mild
 - (d) very loud
- 21. He showed exemplary courage during the crisis.
 - (a) usual
 - (b) durable
 - (c) commendable
 - (d) some
- 22. When the new teacher entered the classroom, he found the pupils <u>restive</u>.
 - (a) at rest
 - (b) idle
 - (c) quiet
 - (d) impatient
- 23. There is no dearth of talent in this country.
 - (a) scarcity
 - (b) availability
 - (c) plenty
 - (d) absence
- 24. The servants retired to their quarters.
 - (a) entered
 - (b) went away
 - (c) ran away
 - (d) mobilised

- 25. The navy gave <u>tactical</u> support to the marines.
 - (a) sensitive
 - (b) strategic
 - (c) immediate
 - (d) expert
- 26. A genius tends to deviate from the routine way of thinking.
 - (a) dispute
 - (b) disagree
 - (c) distinguish
 - (d) differ
- 27. He was greatly debilitated by an attack of influenza.
 - (a) depressed
 - (b) weakened
 - (c) worried
 - (d) defeated
- 28. His efforts at helping the poor are laudable.
 - (a) welcome
 - (b) sincere
 - (c) good
 - (d) praiseworthy
- 29. His conduct brought him reproach from all quarters.
 - (a) rebuke
 - (b) sympathy
 - (c) indifference
 - (d) remorse

Spotting Errors

	ections : Each questi					
	Read each sentence to					
respo	onse in the Answer Sl	heet against the co	orresponding lette	er i.e., (a) or	(b) or (c). If you	find no error, your
respe	onse should be indica	ted as (d).				83
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Antonyms

Directions: Each item in this section consists of an underlined word in given sentences. Each sentence is followed by four words. Select the word which is most nearly **opposite** in meaning to the underlined word.

- 40. He handled the machine with deft fingers.
 - (a) delicate
 - (b) sturdy
 - (c) quick
 - (d) clumsy
- 41. I was deeply affected by his urbane behaviour.
 - (a) rural
 - (b) rude
 - (c) irrational
 - (d) indifferent
- 42. His timidity proved costly.
 - (a) arrogance
 - (b) boldness
 - (c) skilfulness
 - (d) cunning
- 43. Arrangements were made to handle the mammoth gathering tactfully.
 - (a) significant
 - (b) small
 - (c) unruly
 - (d) noisy
- 44. He was engrossed in his work when I walked in.
 - (a) occupied
 - (b) inattentive
 - (c) engaged
 - (d) absent

- 45. These are the main points of the <u>preceding</u> paragraph.
 - (a) following
 - (b) previous
 - (c) first
 - (d) last
- 46. He made a shrewd guess.
 - (a) clever
 - (b) wild
 - (c) incorrect
 - (d) discriminating
- 47. He is suffering from a severe cough.
 - (a) violent
 - (b) mild
 - (c) bad
 - (d) continuous
- 48. Cumulatively, the effect of these drugs is quite bad.
 - (a) Individually
 - (b) Obviously
 - (c) Clearly
 - (d) Collectively
- 49. He was conspicuous because of his colourful shirt.
 - (a) charming
 - (b) ugly
 - (c) small
 - (d) unnoticeable
- 50. He hates these <u>continual</u> arguments with his friend.
 - (a) repeated
 - (b) irrational
 - (c) occasional
 - (d) regular

PART-B

- 51. Which one of the following carbon compounds will not give a sooty flame?
 - (a) Benzene
 - (b) Hexane
 - (c) Naphthalene
 - (d) Anthracene
- 52. Match List I with List II and select the correct answer using the code given below the Lists:

List I

List II

(Molecule)

(Product of digestion)

- A. Proteins
- Nitrogenous bases and pentose sugars
- B. Carbohydrates 2.
 - 2. Fatty acids and glycerol
- C. Nucleic acids
- 3. Monosaccharides
- D. Lipids
- 4. Amino acids

Code:

A B C D

- (a) 2 3 1 4
- (b) 2 1 3 4
- (c) 4 1 3 2
- (d) 4 3 1 2

- 53. In Thar region, the shifting sand dunes are locally known as
 - (a) Dhrian
 - (b) Daurs
 - (c) Dhoros
 - (d) Dhaya
- 54. The impulse on a particle due to a force acting on it during a given time interval is equal to the change in its
 - (a) force
 - (b) momentum
 - (c) work done
 - (d) energy
- 55. Which one of the following statements with regard to expansion, of materials due to heating is **not** correct?
 - (a) As ice melts, it expands uniformly up to 4°C.
 - (b) Mercury thermometer works using the principle of expansion due to heating.
 - (c) Small gap is kept between two rails to allow for expansion due to heating.
 - (d) The length of metallic wire increases when its temperature is increased.

56. Which of the following pairs is/are correctly 58. matched?

(National Park) (Famous for)

1. Ranthambhore : Tiger

2. Periyar : Elephant

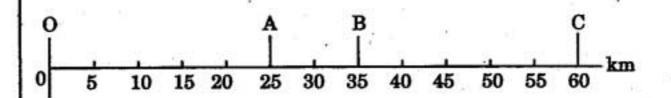
3. Manas : Lion

4. Gir : Rhinoceros

Select the correct answer using the code given below:

- (a) 1, 2 and 3 only
- (b) 1 and 2 only
- (c) 1 and 4 only
- (d) 2 only
- 57. Which one of the following is **not** a form of stored energy?
 - (a) Nuclear energy
 - (b) Potential energy
 - (c) Electrical energy
 - (d) Chemical energy

58. The motion of a car along a straight path is shown by the following figure:



The car starts from O and reaches at A, B and C at different instants of time. During its motion from O to C and back to B, the distance covered and the magnitude of the displacement are, respectively

- (a) 25 km and 60 km
- (b) 95 km and 35 km
- (c) 60 km and 25 km
- (d) 85 km and 35 km
- 59. Jelep La pass is located in
 - (a) Punjab Himalaya
 - (b) Sikkim Himalaya
 - (c) Kumaon Himalaya
 - (d) Kashmir Himalaya
- 60. What is the number of mole(s) of $H_2(g)$ required to saturate one mole benzene?
 - (a) 1
 - (b) 2
 - (c) 3
 - (d) 4

61. Which one of the following pairs of the Schedule in the Constitution of India and its Content is **not** correctly matched?

Schedule

Content

(a) Eighth Schedule: Languages

(b) Second Schedule: The forms of oaths

and affirmations

(c) Fourth Schedule: Allocation of seats

in the Council of

States

(d) Tenth Schedule: Provisions as to

disqualification on

the ground of

defection

- 62. Consider the following statements:
 - The Constitution of India empowers the Parliament to form new States and to alter the areas, boundaries or names of existing States by passing a resolution in simple majority.
 - Jammu and Kashmir has been given special status under Article 370 of the Constitution of India.

Which of the statements given above is/are correct?

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

- 63. The Speaker of the Lok Sabha may resign his office by writing, addressed to the
 - (a) President of India
 - (b) Prime Minister of India
 - (c) Vice President of India
 - (d) Deputy Speaker of the Lok Sabha
- 64. Who among the following is the founder of the 'Bachpan Bachao Andolan'?
 - (a) Shantha Sinha
 - (b) Kailash Satyarthi
 - (c) Aruna Roy
 - (d) Anil Agarwal
- 65. Which of the following are the features of Pradhan Mantri Jan Dhan Yojana?
 - 1. Ensuring financial inclusion of the poor
 - Enhancing financial literacy
 - 3. Provision for accidental insurance to account holders
 - 4. Allowing bank accounts with zero balance

Select the correct answer using the code given below:

- (a) 1 and 4 only
- (b) 1, 2 and 3 only
- (c) 2 and 4 only
- (d) 1, 2, 3 and 4

- 66. The Election Commission recognizes a political party as a national party if
 - it secures at least six percent of the total valid votes polled in four or more States in a general election to the Lok Sabha or to the State Legislative Assemblies.
 - it wins at least four seats in a general election to the Lok Sabha from any State or States.

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

- 67. Which one of the following is not a feature of the Nehru-Mahalanobis model of development strategy?
 - (a) Development of capital goods industries
 - (b) Major involvement of the State in the economy
 - (c) Industrial deregulation and disinvestment in the public sector
 - (d) Enhancing the scope and importance of the public sector

- 68. Which of the following best explains the stated broad vision and aspirations of the Twelfth Five Year Plan (2012 – 2017)?
 - (a) Faster, Sustainable and More Inclusive Growth
 - (b) Modernisation of Industries and Strengthening Infrastructure
 - (c) Enhancing Agricultural and Rural Incomes
 - (d) Checking Inflation and Strengthening non-economic variables like Nutritional Requirements, Health and Family Planning
- 69. Nabhah Sprsam Diptam is the motto of
 - (a) Central Industrial Security Force
 - (b) Indian Air Force
 - (c) ISRO
 - (d) Indian Navy
- 70. Consider the following statements:
 - The Amendment procedure has been provided in Article 368 of the Constitution of India.
 - The consent of the States is mandatory for all Amendments to the Constitution of India.

Which of the statements given above is/are correct?

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

Directions: The following 05 (Five) items consist of two statements, Statement I and Statement II. Examine these two statements carefully and select the answers to these items 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 but 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.
- 71. Statement I: Petroleum is a mixture of many different hydrocarbons of different densities.
 - Statement II: The grade of petroleum depends mainly on the relative proportion of the different hydrocarbons.
- 72. Statement I: There is high salinity in Red Sea.
 - Statement II: Rate of evaporation is high in Red Sea.
- 73. Statement I: Volcanic eruption is accompanied by earthquakes.
 - Statement II: Volcanoes erupt water vapours and dust particles in the atmosphere.
- 74. Statement I: Plantation farming has mostly been practised in humid tropics.
 - Statement II: The soil of humid tropics is highly fertile.
- Statement I: India has wide variation in population density.
 - Statement II: Factors like agricultural productivity and history of settlements have greatly influenced the population density pattern in India.

- 76. A container is first filled with water and then the entire water is replaced by mercury. Mercury has a density of 13.6 × 10³ kg/m³. If X is the weight of the water and Y is the weight of the mercury, then
 - (a) X = Y
 - (b) X = 13.6 Y
 - (c) Y = 13.6 X
 - (d) None of the above
- 77. Density of water is
 - (a) maximum at 0°C
 - (b) minimum at 0°C
 - (c) maximum at 4°C
 - (d) minimum at 4°C
- 78. The phosphorus used in the manufacture of safety matches is
 - (a) Red phosphorus
 - (b) Black phosphorus
 - (c) White phosphorus
 - (d) Scarlet phosphorus
- 79. Which one of the following is not a chemical change?
 - (a) Ripening of fruits
 - . (b) Curdling of milk
 - (c) Freezing of water.
 - (d) Digestion of food

- 80. One of the main causes of air pollution in cities is emissions from vehicles like cars and trucks. Cars emit various pollutants which are bad for human health when inhaled, like
 - Nitrogen oxides (NO_x)
 - 2. Carbon monoxide (CO)
 - 3. Carbon dioxide (CO2)
 - 4. Benzene

Which of the above pollutants are **not** tolerated by human beings even at very low levels?

- (a) 1 and 4 only
- (b) 1 and 2 only
- (c) 1, 2 and 3 only
- (d) 1, 2 and 4 only
- 81. Arrange the following centres of AIIMS from
 East to West:
 - 1. Rishikesh
 - 2. New Delhi
 - 3. Patna
 - 4. Bhubaneswar

Select the correct answer using the code given below:

- (a) 4-3-1-2
- (b) 4-1-3-2
- (c) 3-4-2-1
- (d) 3-2-1-4

- 82. Suppose the force of gravitation between two bodies of equal masses is F. If each mass is doubled keeping the distance of separation between them unchanged, the force would become
 - (a) F
 - (b) 2 F
 - (c) 4 F
 - (d) $\frac{1}{4}$ F
- 83. A body has a free fall from a height of 20 m. After falling through a distance of 5 m, the body would
 - (a) lose one-fourth of its total energy
 - (b) lose one-fourth of its potential energy
 - (c) gain one-fourth of its potential energy
 - (d) gain three-fourth of its total energy
- 84. Soap is sodium or potassium salt of
 - (a) Stearic acid
 - (b) Oleic acid
 - (c) Palmitic acid
 - (d) All of the above
- 85. Mass of a particular amount of substance
 - 1. is the amount of matter present in it.
 - 2. does not vary from place to place.
 - changes with change in gravitational force.

Select the correct answer using the code given below:

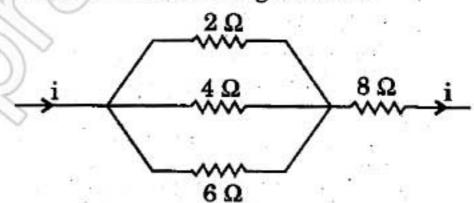
- (a) 1, 2 and 3
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1 only

- 86. Which one of the following oxides dissolves in water?
 - (a) CuO
 - (b) Al₂O₃
 - (c) Fe₂O₃
 - (d) Na₂O
- 87. To prevent heart problems, blood of a normal healthy person should have
 - 1. low cholesterol level.
 - 2. high HDL level.
 - 3. high VLDL level.
 - 4. high LDL level.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 1, 2 and 4 only
- (c) 3 and 4 only
- (d) 1, 2 and 3 only
- 88. Spruce and Cedar are tree varieties of
 - (a) Equatorial forest
 - (b) Temperate coniferous forest
 - (c) Monsoon forest
 - (d) Temperate deciduous forest
- 89. 'Sal' tree is a
 - (a) Tropical evergreen tree
 - (b) Tropical semi-evergreen tree
 - (c) Dry deciduous tree
 - (d) Moist deciduous tree

- 90. Matter around us can exist in three different states, namely, solid, liquid and gas. The correct order of their compressibility is
 - (a) Liquid < Gas < Solid
 - (b) Solid < Liquid < Gas
 - (c) Gas < Liquid < Solid
 - (d) Solid < Gas < Liquid
- 91. The temperature at which a solid melts to become a liquid at the atmospheric pressure is called its melting point. The melting point of a solid is an indication of
 - (a) strength of the intermolecular forces of attraction
 - (b) strength of the intermolecular forces of repulsion
 - (c) molecular mass
 - (d) molecular size
- 92. Consider the following circuit:



The equivalent resistance of the circuit will be

- (a) 12 Ω
- (b) $8\frac{11}{12} \Omega$
- (c) $9\frac{1}{11}\Omega$
- (d) $\frac{24}{25} \Omega$
- 93. Which one of the following elements will not react with dilute HCl to produce H₂?
 - (a) Hg
 - (b) Al
 - (c) Mg
 - (d) Fe

94. Which of the following pairs of vector and disease is/are correctly matched?

Vector

Disease

1. Anopheles

Malaria

Aedes aegypti

Chikungunya

Tsetse fly

Filariasis

Bed bugs

Sleeping sickness

Select the correct answer using the code given below:

- (a) 1, 2 and 3 only
- (b) 1 and 2 only
- (c) 1 and 4 only
- (d) 2 only
- 95. Consider the following statements:
 - 1. All Echinoderms are not marine.
 - 2. Sponges are exclusively marine.
 - 3. Insects are found in all kinds of habitats.
 - Many primates are arboreal.

Which of the statements given above is/are correct?

- (a) 1, 3 and 4 only
- (b) 3 and 4 only
- (c) 2 and 4 only
- (d) 3 only
- 96. Areas which are engines for economic growth supported by quality infrastructure and complemented by an attractive fiscal package are known as
 - (a) Export Processing Zones
 - (b) Duty Free Tariff Zones
 - (c) Special Economic Zones
 - (d) Technology Parks

- 97. Deserts, fertile plains and moderately forested mountains are the characteristic features of which one of the following regions of India?
 - (a) South-Western border along Arabian Sea
 - (b) Coromandel Coast
 - (c) North-Eastern Frontier
 - (d) North-Western India
- 98. A racing car accelerates on a straight road from rest to a speed of 50 m/s in 25 s. Assuming uniform acceleration of the car throughout, the distance covered in this time will be
 - (a) 625 m
 - (b) 1250 m
 - (c) 2500 m
 - (d) 50 m
- 99. A man weighing 70 kg is coming down in a lift. If the cable of the lift breaks suddenly, the weight of the man would become
 - (a) 70 kg
 - (b) 35 kg
 - (c) 140 kg
 - (d) Zero
- 100. A given conductor carrying a current of 1 A produces an amount of heat equal to 2000 J. If the current through the conductor is doubled, the amount of heat produced will be
 - (a) 2000 J
 - (b) 4000 J
 - (c) 8000 J
 - (d) 1000 J

- 101. Which of the following substances are harmful | 105. During solar eclipse for health if present in food items?
 - Pesticide residues 1.
 - 2. Lead
 - Metanil yellow 3.
 - Mercury 4.

Select the correct answer using the code given below:

- 1 and 2 only (a)
- 1, 2 and 4 only (b)
- 3 and 4 only (c)
- 1, 2, 3 and 4 (d)
- 102. In India, glacial terraces known as 'Karewas' are found in
 - Sapt Kosi Valley (a)
 - Jhelum Valley (b)
 - Alakananda Valley (c)
 - (d) Teesta Valley
- 103. Structurally, the Meghalaya region is a part of
 - Shiwalik Range (a)
 - Deccan Plateau (b)
 - Greater Himalaya (c)
 - Aravalli Range (d)
- 104. Two bodies A and B are moving with equal velocities. The mass of B is double that of A. In this context, which one of the following statements is correct?
 - Momentum of B will be double that of A. (a)
 - Momentum of A will be double that of B. (b)
 - Momentum of B will be four times that (c) of A.
 - Momenta of both A and B will be equal. (d)

- - the earth comes in between the sun and (a) the moon.
 - the moon comes in between the sun and (b) the earth.
 - comes exactly halfway the moon (c) between the earth and the sun.
 - the sun comes in between the earth and (d) the moon.
- The S.I. unit of acceleration is 106.
 - ms^{-1} (a)
 - ms^{-2} (b)
 - cms^{-2} (c)
 - kms^{-2} (d)
- 107. An atom of carbon has 6 protons. Its mass number is 12. How many neutrons are present in an atom of carbon?
 - 12 (a)
 - (b) 6
 - 10
 - (d) 14
- 108. Which one of the following is a reduction reaction?
 - $2 \text{ Mg (s)} + O_2(g) \rightarrow 2 \text{ MgO (s)}$ (a)
 - (b) $S(s) + O_2(g) \rightarrow SO_2(g)$
 - 2 HgO (s) $\xrightarrow{\text{heat}}$ 2 Hg (l) + O₂ (g)
 - (d) $Mg(s) + S(s) \rightarrow MgS(s)$
- Which of the commonly used household item(s) release Bisphenol A (BPA) which is an endocrine disruptor and bad for human health?
 - Steel utensils 1.
 - Plastic coffee mugs 2.
 - Aluminium utensils 3.
 - Plastic water storage bottles

Select the correct answer using the code given below:

- (a) 1 only
- 1 and 2 only (b)
- 2 and 4 only (c)
- 1, 2 and 3 only (d)

- 110. The Nagarjuna Sagar Project is located on thick one of the following rivers?

 113. A pencil is placed upright at a distance of the following rivers?

 10 cm from a convex lens of focal length
 - (a) Godavari
 - (b) Krishna
 - (c) Kavery
 - (d) Mahanadi
- 111. Consider the following statements:
 - Rajmahal highlands consist of lava flow deposits.
 - 2. Bundelkhand gneiss belong to the oldest Achaean rocks of India.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 112. An object is placed at the centre of curvature of a concave mirror of focal length 16 cm. If the object is shifted by 8 cm towards the focus, the nature of the image would be
 - (a) real and magnified
 - (b) virtual and magnified
 - (c) real and reduced
 - (d) virtual and reduced

- 113. A pencil is placed upright at a distance of 10 cm from a convex lens of focal length 15 cm. The nature of the image of the pencil will be
 - (a) real, inverted and magnified
 - (b) real, erect and magnified
 - (c) virtual, erect and reduced
 - (d) virtual, erect and magnified
- 114. Which one of the following is a conventional energy source?
 - (a) Tidal energy
 - (b) Geothermal energy
 - (c) Solar energy
 - (d) Biomass energy
- 115. Which one of the following oxides of nitrogen is known as 'anhydride' of nitric acid?
 - (a) N₂O
 - (b) N₂O₃
 - (c) NO₂
 - (d) N_2O_5
- 116. Which one of the following is the chemical name for baking soda?
 - (a) Sodium bicarbonate (Sodium hydrogen carbonate)
 - (b) Sodium carbonate
 - (c) Potassium bicarbonate (Potassium hydrogen carbonate)
 - (d) Potassium carbonate

- the Comptroller and Auditor General (CAG) of India is/are correct?
 - The CAG can attend the sittings of the 1. Committee on Public Accounts.
 - The CAG can attend the sittings of Lok 2. Sabha and Rajya Sabha.
 - The jurisdiction of CAG is co-extensive 3. with powers of the Union Government.

Select the correct answer using the code given below:

- 1 only (a)
- 2 and 3 only (p)
- 1 and 2 only (c)
- 1, 2 and 3 (d)
- 118. Which of the following statements relating to election as the President of India is/are correct?
 - A person above the age of thirty-five 1. years is eligible for election as the President of India.
 - The President of India is eligible for 2. re-election for more than one term.
 - A person is not eligible for election as 3. the President of India if the person holds an office of profit.

Select the correct answer using the code given below:

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

- 117. Which of the following statements relating to | 119. Which one of the following nations adopted its first democratic Constitution in September 2015?
 - Bhutan (a)
 - Myanmar (b)
 - Nepal (c)
 - (d) Singapore
 - 120. Who among the following was defeated by Novak Djokovic in the final of the US Open Tennis Tournament Men's Singles event (2015)?
 - Tommy Robredo (a)
 - Fabio Fognini (b)
 - Roger Federer (c)
 - Pablo Cuevas
 - The citizens of India do not have which one of 121. the following Fundamental Rights?
 - Right to reside and settle in any part of (a) India
 - Right to acquire, hold and dispose of (b) property
 - Right to practice any profession (c)
 - Right to form co-operative societies (d)
 - 122. Which one among the following Acts for the Indians, at allowed least first time theoretically, entry to higher posts in British Indian administration?
 - Charter Act, 1813 (a)
 - Charter Act, 1833 (b)
 - Charles Wood's Education Despatch, (c) 1854
 - Indian Councils Act, 1861 (d)

- 123. Consider the following statements about Rashtrakuta kings:
 - They were ardent patrons of Shaivism and did not support other forms of religion.
 - They promoted only Sanskrit scholars and gave them large grants.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 124. After a ban on unscientific coal mining and transportation of coal in this region by the National Green Tribunal, many of those engaged in the activity have been switching to turmeric farming for their livelihood. The region referred above is
 - (a) Jaintia Hills, Meghalaya
 - (b) Koriya, Chhattisgarh
 - (c) Angul, Odisha
 - (d) Bardhaman, West Bengal
- 125. Which of the following statements about the first act of the Revolt of 1857 is/are true?
 - It occurred in Meerut when two sepoys stole a superior officer's rifle.
 - It began when the Rani of Jhansi declared war on the British.
 - It began when Mangal Pandey fired at a European officer in Meerut.
 - It began when Mangal Pandey fired at a European officer in Barrackpore.

Select the correct answer using the code given below:

- (a) 2 only
- (b) 1, 2 and 3 only
- (c) 4 only
- (d) 1 and 4 only

- 126. Which of the following statements about Gandhiji's *Hind Swaraj* written in 1909 is/are true?
 - Hind Swaraj offers a civilizational concept of the Indian nation.
 - Hind Swaraj states that Parliamentary democracy was necessary for the amelioration of the sufferings of Indians.
 - Hind Swaraj argues that Industrial capitalism was responsible for the immorality of society.

Select the correct answer using the code given below:

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

127. Division of labour often involves

- 1. specialized economic activity.
- 2. highly distinct productive roles.
- involving everyone in many of the same activities.
- individuals engage in only a single activity and are dependent on others to meet their various needs.

Select the correct answer using the code given below:

- (a) 1, 3 and 4 only
- (b) 1, 2 and 4 only
- (c) 3 only
- (d) 2 and 4 only

- 128. Who among the following is/was associated with 'Maharashtra Andhashraddha Nirmoolan Samiti'?
 - (a) Chandi Prasad Bhatt
 - (b) Narendra Dabholkar
 - (c) G.D. Agrawal
 - (d) Kailash Satyarthi

129. Consider the following statements:

- Warren Hastings set up the Calcutta Madrassa for the study and teaching of Muslim law related subjects.
- Jonathan Duncan started a Sanskrit College at Varanasi for the study of Hindu law and philosophy.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 130. Consider the following statements about Sufism in India:
 - Pilgrimage called ziyarat to tombs of Sufi saints is an important feature.
 - The most influential group of Sufis in India were the Chishtis.

Which of the statements given above is/are correct?

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

- is/was and raddha movements influenced the development of Gandhiji's political ideas?
 - 1. Henry David Thoreau
 - 2. John Ruskin
 - 3. John Milton
 - 4. Jainism

Select the correct answer using the code given below:

- (a) 1 only
- (b) 1, 2 and 3 only
- (c) 1, 2 and 4 only
- (d) 2 and 4 only
- 132. Consider the following statements:
 - The Arthashastra is the first Indian text to define a State.
 - The main concerns of the Arthashastra are theoretical issues like the origins of the state.

Which of the statements given above is/are correct?

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

- change(s) after 2010?
 - Permission of 100 percent FDI in 1. automotive sector
 - Permitting foreign airlines to make FDI 2. up to 49 percent
 - Permission of up to 51 percent FDI 3. under the government approval route in retailing, multi-brand subject specified conditions
 - Amendment of policy on FDI in 4. single-brand product retail trading for aligning with global practices

Select the correct answer using the code given below:

- 1 only (a)
- 2 and 4 only (b)
- 1 and 2 only (c)
- 1, 2 and 3 only (d)
- following 134. Which is/are the of component/components of the Integrated Power Development Scheme launched by the Government of India recently?
 - 1. Strengthening of sub-transmission and distribution networks in the urban areas
 - 2. Metering of distribution transformers/ feeders/consumers in the rural areas

Select the correct answer using the code given below:

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

- 133. Which of the following is/are not FDI policy | 135. Which of the following statements about Brahmo Samaj is/are correct?
 - The Brahmo Marriage Act of 1872 allowed inter-caste and widow re-marriage only if contracting parties declared the themselves to be non-Hindus.
 - Keshub Chandra Sen arranged the marriage of his minor daughter with the Maharaja of Burdwan.
 - 3. Keshub Chandra Sen's followers broke away to form the Naba Brahmo Samaj.
 - The Brahmo Samaj grew from a small elite group to a mass movement in the 19th century.

Select the correct answer using the code given below:

- 1 only (a)
- 1 and 2 only (b)
- 2 and 3 only (c)
- 1, 2, 3 and 4 (d)
- 136. Which of the following statements about the aims of the United Nations is/are true?
 - 1. To foster a mutual appreciation of each others' culture and literature among nations
 - To achieve international co-operation in solving problems of an economic, social, cultural, or humanitarian character
 - 3. To foster relations between scholars and academics in different countries
 - 4. To organize international conferences

Select the correct answer using the code given below:

- 1 only (a)
- 1, 2 and 4 only (b)
- 2 only (c) ·
- 1, 2 and 3 only (d)

- 137. Which of the following statements about DNA is/are correct?
 - DNA is the hereditary material of all living organisms.
 - All segments of DNA code for synthesis of proteins.
 - Nuclear DNA is double helical with two nucleotide chains which run anti-parallel.
 - 4. DNA is also found in mitochondria.

Select the correct answer using the code given below:

- (a) 1, 2 and 3 only
- (b) 3 and 4 only
- (c) 1, 3 and 4 only
- (d) 4 only
- 138. Which organisation prepares the topographical maps of India?
 - (a) Geological Survey of India
 - (b) Archaeological Survey of India
 - (c) Survey of India
 - (d) National Atlas and Thematic Mapping Organisation
- 139. Which one of the following is not an international boundary line?
 - (a) Dresden Line
 - (b) Durand Line
 - (c) Maginot Line
 - (d) 38th Parallel

- 140. A lady is standing in front of a plane mirror at a distance of 1 m from it. She walks 60 cm towards the mirror. The distance of her image now from herself (ignoring the thickness of the mirror) is
 - (a) 40 cm
 - (b) 60 cm
 - (c) 80 cm
 - (d) 120 cm
- 141. The brightness of a star depends on its
 - (a) size and temperature only
 - (b) size and distance from the earth
 - (c) size, temperature and mass
 - (d) size, temperature and distance from the earth
- 142. When a solid is heated, it turns directly into a gas. This process is called
 - (a) Condensation
 - (b) Evaporation
 - (c) Sublimation
 - (d) Diffusion
- 143. Which one of the following is water gas?
 - (a) Mixture of carbon monoxide and hydrogen
 - (b) Mixture of carbon monoxide and nitrogen
 - (c) Mixture of carbon dioxide and water vapour
 - (d) Mixture of carbon monoxide and water vapour

correct?

In honey bees

- Males are haploid. 1.
- Workers are sterile and diploid. 2.
- Queen develops from diploid larvae that 3. fed on royal jelly.
- Honey is collected/made by males. 4.

Select the correct answer using the code given below:

- (a) 1, 2, 3 and 4
- 2 and 3 only (b)
- 1, 2 and 3 only (c)
- (d) 1 and 4 only
- 145. The Amarkantak Hills is the source of which of the following rivers?
 - Narmada
 - 2. Mahanadi
 - Tapti 3.
 - Son 4.

Select the correct answer using the code given below:

- 1 and 2 only (a)
- 2 only (b)
- 1, 3 and 4 only (c)
- 1, 2 and 4 only (d)
- 146. Which of the following statements the context of northern hemisphere is/are correct?
 - Vernal equinox occurs on March 21. 1.
 - Summer solstice occurs on December 22. 2.
 - Autumnal 3. equinox occurs onSeptember 23.
 - Winter solstice occurs on June 21.

Select the correct answer using the code given. below:

- 1 only (a)
- 1 and 3 only (b)
- (c) 2 and 4 only
- 1, 2 and 3 only (d)

- 144. Which of the following statements are 147. A glass vessel is filled with water to the rim and a lid is fixed to it tightly. Then it is left inside a freezer for hours. What is expected to happen?
 - The water freezes to ice and the level of (a) ice comes down
 - The water in the glass vessel simply (b) freezes to ice
 - The glass vessel breaks (c) due expansion as water freezes to ice
 - The water does not freeze at all (d)
 - 148. A simple circuit contains a 12 V battery and a . bulb having 24 ohm resistance. When you turn on the switch, the ammeter connected in the circuit would read
 - 0.5 A (a)
 - 2 A (b)
 - (c) 4 A
 - (d) 5 A
 - Three resistors with magnitudes 2, 4 and 8 ohm are connected in parallel. The equivalent resistance of the system would be
 - less than 2 ohm (a)
 - more than 2 ohm but less than 4 ohm (b)
 - (c) 4 ohm
 - (d) 14 ohm
 - 150. Suppose you have four test tubes labelled as 'A', B', 'C' and 'D'. 'A' contains plain water, 'B' contains solution of an alkali, 'C' contains solution of an acid, and 'D' contains solution of sodium chloride. Which one of these solutions will turn phenolphthalein solution pink?
 - Solution 'A' (a)
 - Solution 'B' (b)
 - Solution 'C' (c)
 - Solution 'D' (d)

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