#### DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

T.B.C. : B-MCZA-N-F2S

**Test Booklet Series** 

Serial No.

# TEST BOOKLET

108788

## GENERAL ABILITY TEST

Maximum Marks: 600

Time Allowed: Two Hours and Thirty Minutes

#### INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- 2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/ discrepancy will render the Answer Sheet liable for rejection.
- You have to enter your Roll Number on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.
- 4. This Test Booklet contains 150 items (questions) in two Parts: PART—A and PART—B. Each item in PART—B is printed both in Hindi and English. Each item comprises three/four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- 5. You have to mark all your responses ONLY on the separate Answer Sheet provided. See directions in the Answer Sheet.
- 6. All items carry equal marks.
- 7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer Sheet. You are permitted to take away with you the Test Booklet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- 10. Penalty for wrong answers:
  THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN
  THE OBJECTIVE TYPE QUESTION PAPERS.
  - (i) There are three/four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third of the marks assigned to that question will be deducted as penalty.
  - (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.
  - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

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## PART-A

## FILL IN THE BLANKS

**Directions**: Each of the items in this section contains a blank followed by words listed as (a), (b), (c) and (d). Choose the most appropriate word to fill in the blank and indicate your response in the Answer Sheet accordingly.

- 1. When the police arrived, the thief --- away.
  - (a) strolled
  - (b) moved
  - (c) galloped
  - (d) ran
- 2. His as an officer was not quite satisfactory.
  - (a) acting
  - (b) doing
  - (c) deed
  - (d) record
- 3. The two children stood at the --- of the table.
  - (a) conclusion
  - (b) terminal
  - lot end
  - (d) termination
- 4. The old man was weak to open the door.
  - Jay very
    - (b) far
  - (c) much x
  - (d) too

## **ANTONYMS**

**Directions**: Each question in this section consists of a word printed in capital letters followed by words listed as (a), (b), (c) and (d). Choose from these the word that has most nearly the meaning **opposite** to the word in capital letters and indicate your response in the Answer Sheet accordingly.

### 5. FRAIL

(a) strong

(b) big

(c) old

-fdT weak

## 6. INDIGENOUS

(a) genuine

(b) foreign

(c) indigent

indignant

#### 7. POVERTY

(a) prosperity

(b) adversary

(c) adversity

(d) diversity

# 8. WHOLESOME

for complete

(b) unhealthy

(c) incomprehensible

(d) few

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# SENTENCE IMPROVEMENT

**Directions**: Look at the underlined part of each sentence. Below each sentence three possible substitutions are given for the underlined part. If one of them, i.e., (a), (b) or (c) is better than the underlined part, indicate your response on the Answer Sheet against the corresponding letter. If none of the substitutions improves the sentence, indicate (d) as your response on the Answer Sheet.

 I don't remember exactly when did I go to Simla last year.

(af when I did go

- (b) when I was going
- (c) when I went
- (d) No improvement
- 10. Even he worked hard, he failed in the examination.
  - (a) Since

Although

- (c) For
- (d) No improvement
- 11. He was asked to arbitrate with two merchants in a dispute.

to arbitrate between

- (b) to arbitrate at
- (c) to arbitrate
- (d) No improvement

- 12. He is definitely the cleverer among the two.
  - (a) in

16) of

- (c) than
- (d) No improvement
- 13. He is resembling his father.
  - (a) has resembled
  - (b) was resembling

(e) resembles

- (d) No improvement
- 14. Would you mind <u>closing</u> the window?

(a) to close

- (b) in closing
- (c) for closing
- (d) No improvement

<ol> <li>I can be grateful if you could write to me about it.</li> </ol>	18, He is knowing the secret.
(a) would be	-fa) knows
(b) should be	(b) has been knowing
(c) must be	(c) was knowing
(at) No improvement	(d) No improvement
16. A majority of the passengers could have been saved if the driver had	19. The meeting has been put off to Friday next.
applied the brakes in time.	
(a) had been saved	put on
(b) may have been saved	(b) put out
(o) could have saved	(c) put for
(d) No improvement	(d) No improvement
17. He is living in this house for the past ten years.	20. If you will come with me I shall be happy.
(a) was living	fat come with me
had been living	(b) had come with me
(of has been living	(c) came with me y
(d) No improvement	(d) No improvement
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### COMPREHENSION

**Directions**: Read the following short passages. After each passage, you will find several questions based on what is stated or implied in the passages. Answer the questions that follow each passage.

### PASSAGE-I

In a free country, the man who reaches the position of leader is usually one of outstanding character and ability. Moreover, it is usually possible to foresee that he will reach such a position, since early in life one can see his qualities of character. But this is not always true in the case of a dictator; often he reaches his position of power through chance, very often through the unhappy state of his country. It is possible that Hitler would never have become the leader of Germany if that country had not been driven to despair.

- 21. In a free country, one who becomes a leader
  - (a) must be of outstanding character and ability
  - must show qualities of character from an early age
    - (c) is generally of a remarkable character and ability
    - (d) must see that his country is free from despair
- 22. Hitler became a leader because
  - (a) he exhibited leadership qualities
  - (b) Germany was a free country

- (c) Germany was in despair
- (d) Germans wanted a dictator
- 23. The passage seems to suggest that
  - despair sometimes leads to dictatorship
    - (b) Hitler was no leader
  - (c) a leader is chosen only by a free country
  - (d) a leader foresees his future position

### PASSAGE-II

The dog is a very intelligent animal and it can be trained for many duties. Some dogs work with the police and the army as sentries and trackers, and there are medals that are awarded to dogs for bravery in action. Other dogs act as seeing-eyes for the blind, and some breeds are specially trained for rescue work among mountains and snow. Jobs like herding sheep and cattle and guarding homes are also done by them. Whenever man lives and works in the Arctic Circle, in the desert, in the jungle, in the moors or mountains, the dog is his faithful companion and help. A common mongrel may possess these qualities just as much as the aristocratic bloodhound.

- 24. The passage tells us that dogs
  - (et) can be trained to do different kinds of work
  - (b) are capable of difficult work
  - (c) are of different types
  - (d) alone are a great help to man

- 26. The passage implies that
  - (a) only dogs are faithful but not man
  - (b) man would have felt helpless without dogs
  - the dog has certain qualities that make it man's trustworthy companion
  - (d) dogs can do almost anything >
- 25. Medals are awarded to some dogs for
  - (a) their brave deeds
    - (b) working with the police ≠
    - (c) serving as sentries 7
    - (d) being able to perform difficult work >

- 27. The phrase 'aristocratic bloodhound' in the passage means
  - (a) the dog kept by wealthy people
  - (b) a pedigree dog
  - (c) a dog fond of blood
    - (d) any big dog

# SELECTING WORDS

**Directions**: In the following passage at certain points, you are given a choice of three words marked (a), (b) and (c), one of which fits the meaning of the passage. Choose the best word out of the three. Mark the letter, viz., (a), (b) or (c), relating to this word on your Answer Sheet. Examples **K** and **L** have been solved for you.

The K. (a) boy was in the school in Simla. L. (a) She was homesick.

(b) horse

(b) It

(c) dog

(c) He

Explanation: Out of the list given in item **K**, only 'boy' is the correct answer because usually, a boy, and not a horse or a dog, attends school. So (a) is to be marked on the Answer Sheet for item **K**. A boy is usually referred to as 'he', so for item **L**, (c) is the correct answer. Notice that to solve the first item **K**, you have to read the rest of the sentence and then see what fits the best.

### PASSAGE

Drobny defied the critics. He had played through the Wimbledon fortnight and reached the final. Could he win just one more match and take the crown, or would he fail again at the last test and justify those who said that he lacked that little extra something that makes the champion? His opponent was the Australian Ken Rosewall, 28. (a) that brilliant

- Aekthe

youngster and already a master 29. (a) with worldwide experience behind him

(b) of

(c) for

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Jaroslav Drobny, 30. (a) a son of a Czech carpenter who 31. (a) had started the

(b) that

(c) the

boy off at the 32. (a) age of five with a wooden 'bat' in lieu 33. (a) for a racquet,

(b) stage
(c) career

went on 34. (a) to the famous Centre Court at Wimbledon 35. (a) in day with

(b) for (b) on

(c) with

the full knowledge that this 36. (a) can be the game of his 37. (a) life. He had (b) must (c) would (c) day.

kept on trying, and 38. (a) he could keep on trying, but 39. (a) games would

(b) one (b) matches

(c) you (e) opportunities

become fewer and fewer. He knew that he had to gain an advantage from the start, and he had this young rival set off against him.

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# SPOTTING ERRORS

Directions: In this section, you have to spot errors in sentences. Read each sentence to find out whether there is an error in any underlined part. Errors, if any, are only in the underlined parts. No sentence has more than one error. Letters (a), (b) and (c) have been placed beneath the underlined parts for their identification. When you find an error in any one of the underlined parts, indicate your response on the separate Answer Sheet in the relevant column. You may feel that there is no error in the sentence. In that case, letter (d) will signify a 'No error' response.

40. The pile of books are missing. No error 
$$(a)$$
  $(b)$   $(c)$   $(d)$ 

41. Either he or I are wrong. No error 
$$(a)$$
  $(b)$   $(c)$   $(d)$ 

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- 45. The number of books in our library is less. No error (C)
- 46. The general said, "Soldiers, do not fire till I will give the order." No error (d)
- 47. Neither of the candidates are good. No error (b)
- 48. This machine is more efficient than any other equipments in the workshop.

  (a) (b) (c)

No error

49. The tin deposits in that area (a) (b) in to near future.

No error

50. The operation of this machine is different to that of the other. No error (a) (b) (c) (d)

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# PART-B

- 51. Consider the following statements:
  - Crystallization is a form of mechanical weathering.
  - Hydration causes granular. disintegration.
  - Frost action is synonymous with freeze-thaw action.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (e) 1 and 3 only
- (d) 1, 2 and 3
- 52. Lapland is a cultural region largely within the Arctic Circle in the north of the Scandinavian Peninsula. Who inhabited the Lapland?
  - (a) Sami people
  - (b) Padaung people
  - (c) Hamar people
  - (d) Himba people
- 53. If speed of light in air is 3 x 10<sup>8</sup> m/s, the speed of light in glass (with refractive index 1.5) would be
  - (a)  $2 \times 10^8$  m/s
  - W 4.5×108 m/s
  - (c)  $3 \times 10^8$  m/s
  - (d) 1.5 x 108 m/s

- 54. While looking at an image formed by a convex lens (one half of the lens is covered with a black paper), which one of the following will happen to the image?
  - (a) Half of the image will be visible
  - (b) Intensity of the image will be diminished
  - (c) Image will be inverted now
  - (d) One can see an image of smaller size
- 55. Which of the following acids is a mineral acid?
  - (a) Citric acid
  - (b) Hydrochloric acid
  - (c) Ascorbic acid
  - (d) Tartaric acid
- 56. Considering the locations of mountains in India, which one among the following is in right sequence from south to north?
  - (a) Doddabetta, Kailash,
    Dhaulagiri, Vindhyacha
  - (b) Doddabetta, Vindhyachal, Dhaulagiri, Kailash
  - (c) Dhaulagiri, Kailash, Doddabetta, Vindhyachan
  - (d) Dhaulagiri, Vindhyachal, Doddabetta, Kailash
- 57. A balloon filled up with gas would only go up in air if it is filled up with
  - a gas whose density is lower
  - (b) a gas whose density is higher than air
  - (c) cold air
  - (d) water vapour

- 58. Planet A has double the radius than that of Planet B. If the mass of Planet A is 4 times heavier than the mass of Planet B, which of the following statements regarding weight of an object is correct?
  - (a) Heavier on Planet A than on Planet B
    - (b) Heavier on Planet B than on Planet A
    - (c) Same on both the Planets x
- 59. Which of the following is correct regarding the reaction of fluorine with water?

$$2F_2(g) + 2H_2O(l) \rightarrow 4H^+(aq) + 4F^-(aq) + O_2(g)$$

- (d) Fluorine is oxidized to F
- (b) Water is oxidized to O2
- (c) Water is reduced to H+
- (d) Oxidation state of fluorine does not change
- 60. The site of cellular respiration in animal cell is
  - (a) ribosome
  - (b) mitochondria
  - (c) endoplasmic reticulum
    - (d) lysosome

- 61. Which one among the following lakes is situated on the west coast of India?
  - (a) Chilika
  - (b) Ashtamudi
  - ← Pulicat
  - (d) Kolleru
- 62. Sound waves are similar to the
  - (a) of laser light passing through air
  - (b) generated in a stretched wire by hitting or plucking the wire
  - generated in a pipe filled with air by moving the piston attached to the pipe up and down
  - (d) generated by the mobile phone towers
  - 63. A sound wave has frequency of 2 kHz and wavelength of 35 cm. If an observer is 1.4 km away from the source, after what time interval could the observer hear the sound?

(b) 2 s

- (c) 0.5 s
- (d) 4 s
- 64. Which of the following is/are amphoteric?
  - (a) Al(OH)3(s) and Fc(OH)3(s)
  - (b) Al(OH)<sub>3</sub>(s) and HCO<sub>3</sub>(aq)
  - (c) Ba(OH)2(s) and NaOH (aq)
  - (d) Al(OH)3(s) only

- 65. Which of the following statements about vitamins are correct?
  - Vitamin C is essential to make connective tissue in body.
  - Vitamin D is needed for synthesis of eye pigment.
  - Vitamin B<sub>12</sub> helps in maturation of RBC.
  - Vitamin C is required to make use of calcium absorbed from the intestine.

- (a) 1 and 2
- \_(b) 1 and 3
  - (c) 2 and 4
  - (d) 1 and 4
- 66. What is the correct sequence from the smallest to the largest grain of the following types of clastic rocks?
  - (a) Shale, sandstone, conglomerate, siltstone
  - (b) Shale, siltstone, sandstone, conglomerate
  - (c) Conglomerate, sandstone, shale, siltstone
  - (d) Sandstone, siltstone, conglomerate, shale
- 67. Which one among the following waves bats use to detect the obstacles in their flying path?
  - (a) Infrared waves
  - (b) Electromagnetic waves
  - (c) Ultrasonic waves
  - (d) Radio waves

- 68. A fuse is used in an electric circuit to
  - (a) break the circuit when excessive current flows through the circuit
  - (b) break the circuit when power gets off
  - (c) indicate if the current is flowing uninterrupted
  - (d) complete the circuit for flow of current
- 69. The most of the mass of the atom can be found in
  - (a) electrons
  - (b) charges
  - (c) nucleus
  - (d) electron cloud
- 70. The Faroe is a group of islands lying in the Atlantic Ocean between Scotland and Iceland. This island group is also known as
  - (a) Island of Sheep
  - (b) Island of Goats
  - (c) Island of Cows
  - (d) Island of Buffaloes

- 71. Which of the following statements about the Progressive Writers' Association, which created a generation of creative people, is/are correct?
  - It thought critically about the poverty and hunger of the Indian people.
  - It brought out the positive developments of colonialism.
  - Its creative pursuits began with a critical evaluation of Gandhian politics.
  - It planned India's development model.

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

Jef 1 and 4

(d) 1 and 3

- 72. E. V. Ramaswami Naicker was associated with
  - 1. reforming Brahminism
  - 2. the Self-Respect Movement\
  - 3. the Low Caste Movement
  - 4. the Communist Movement

Select the correct answer using the code given below.

- (a) 1, 2, 3 and 4 7
- (b) 1 and 3 only 1
- (c) 1 and 4 only 4

(a) 2 and 3 only

- 73. Consider the following statements about 'Param Vir Chakra':
  - It is the highest peacetime gallantry award.
  - It is the replacement of British Victoria Cross.
  - It can be awarded to civilians.

Which of the statements given above is/are correct?

(a) 1 only

(b) 2 only

- (c) 2 and 3 only,
- (d) 1, 2 and 3 £
- 74. Gandhiji's 'Harijan Campaign' sought to
  - 1. attack caste system as a whole
  - open wells, roads, temples, etc., to Harijans
  - encourage social work among Harijans

Select the correct answer using the code given below.

(a) 1 and 2

AST 2 and 3

- (c) 1 and 3
- (d) 3 only

- 75. The Salt Satyagraha called by Mahatma Gandhi saw the
  - violation of salt laws along coastal India
  - participation of women <sup>↑</sup>
  - upward swing when it came to the working class joining in

- (a) 1 and 3 only
- (b) 2 only
- (c) 1 and 2 only
- (d) 1, 2 and 3
- 76. What was the code name for the Indian Air Force operations during the Kargil Conflict of 1999?
  - (a) Operation Vijay
  - (b) Operation Meghdoot
  - (c) Operation Indradhanush
  - (d) Operation Safed Sagar
- 77. During the Civil Disobedience Movement, tribals in Chota Nagpur
  - 1. gave up opium consumption
  - 2. wore Khadi ∨
  - gave up drinking liquor and cating meat

Select the correct answer using the code given below.

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

- 78. Which of the following was/were the new feature/features visible in the Quit India Movement (1942)?
  - Large-scale movements in some of the industrial areas
  - Large-scale mass involvement in some of the Princely States
  - Increase in the activities of the Kisan Sabha

Select the correct answer using the code given below.

- (a) 1, 2 and 3
- (b) 1 only
- (c) 1 and 3 only
- (d) 3 only
- 79. The Financial Sector Legislative Reforms Commission report submitted recently, among others, contained which of the following proposals?
  - All regulators will have an empowered board, the role of each of the members has been defined.
  - The Commission envisages an important process of judicial review of the regulations.
  - The draft code does not mention about executive powers.

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

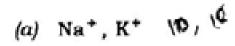
- 80. The Swadeshi Movement evoked serious responses in
  - (a) Madras and Hyderabad
  - Bengal and Maharashtra
  - (c) Bihar and Orissa
  - (d) the Princely States
- 81. Who among the following was associated with the Gudem-Rampa Rebellion?
  - (a) Birsa Munda
  - (b) Kushal Konwar
  - (e) Alluri Sitarama Raju
  - (d) Mangal Pandey
- 82. The Bali Ministerial Declaration and the ministerial decisions that were adopted on 7th December, 2013 contained several issues. Which of the following are related to the Least-Developed Countries?
  - Preferential Rules of Origin for Least-Developed Countries
  - 2. Operationalization of the Waiver Concerning Preferential Treatment to Services
  - Duty-Free and Quota-Free (DFQF) Market Access for Least-Developed Countries

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

- 83. The 'Doctrine of Lapse' was a policy that aimed to
  - control the rebellions in the
  - (b) extend the military strength of the British
  - (c) regulate the landlords
  - (d) extend the territorial boundaries of the English East India Company
- 84. The Permanent Settlement of 1793 introduced
  - (a) peasant rights
  - (b) bourgeois property rights in land to Zamindars
  - shipping rights for the English
    East India Company
    - (d) rights for women to have property rights
- 85. Which of the following is/are true relating to the Lokpal Bill, 2013, which was assented to by the President on 1st January, 2014?
  - It provides for creation of antigraft ombudsman to investigate corruption charges against public functionaries including the Prime Minister, Ministers and Members of the Parliament.
  - The Bill makes it incumbent upon States to make within a year their own law for setting up Lokayuktas on the lines of the Lokpal Bill.
  - States are free not to set up Lokayuktas, if they do not so desire.

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

86. Which of the following pairs represents isoelectronic ions?



- 87. After diagnosis of disease in a person, the doctor advises the patient iron and folic acid tablets. The person is suffering from
  - (a) osteoporosis
  - (b) anaemia

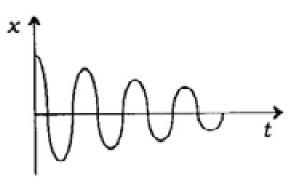
(goitre

- (d) protein-energy malnutrition
- 88. Which one among the following is the coral group of islands of India?
  - (a) Andaman
  - (b) Nicobar
  - (c) Minicoy
  - (d) Lakshadwccp
- 89. Bernoulli's principle is based on which one among the following laws?
  - (a) Conservation of mass
  - (b) Conservation of momentum

(c) Conservation of angular momentum

(d) Conservation of energy

90.



The displacement (x)-time (t) graph given above approximately represents the motion of a

- (a) simple pendulum placed in vacuum
- (b) simple pendulum immersed in water
- (c) simple pendulum placed in outer space
- (d) point mass moving in air
- 91. Dihydrogen can be prepared on a commercial scale by the action of steam on hydrocarbons, when a mixture of CO and H<sub>2</sub> gas is formed. It is known as

(a) water gas

- (b) producer gas
- (c) industrial gas
- (d) fuel gas
- 92. Dropsy is a discase caused due to adulteration in

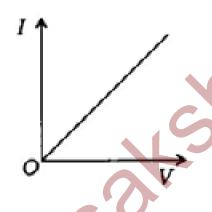
Ghee

- (b) Arhar Dal
- (c) mustard oil
- (d) turmeric powder

- 93. Consider the following surface winds:
  - 1. Doldrums
  - 2. Trade winds
  - 3. Westerlies
  - 4. Polar winds

Which one among the following is the idealized global pattern of these winds from the Equator to the Pole?

94.



The current (I)-voltage (V) plot of a certain electronic device is given above. The device is

- (a) a semiconductor
- (b) a conductor which obeys Ohm's law

(d) an insulator

- 95. Which of the following statements about hydrogen is/are correct?
  - Hydrogen has three isotopes of which protium is the most common.
  - Hydrogen ion (H<sup>+</sup>) exists freely in solution.
  - Dihydrogen, H<sub>2</sub>, acts as a reducing agent.

Select the correct answer using the code given below.

96. Leaves of which of the following plants are not used for the rearing of silkworms?

97. Taungup Pass is a mountain corridor connecting India with

- 98. The temperature of water at the bottom of a lake whose upper surface has frozen to ice would be around
  - (a) -10 °C
  - (b) 0 °C
  - (c) 4 °C
  - Jet -4 °C
- 99. Which of the following statements is correct?
  - (a) Fullerenes have only sixmembered carbon rings
  - (b) Fullerenes are cage-like molecules
  - (c) Diamond is thermodynamically the most stable allotrope of carbon
  - (d) Graphite is slippery and hard, and is therefore used as a dry lubricant in machines
- groups is the most abundant in terms of number of species identified?
  - (a) Fungi
  - (b) Green plants
  - (c) Bacteria
  - (d) Insects

- 101. Who among the following was associated with the Hindustan Socialist Republican Association?
  - (a) Subhash Chandra Bose
  - (b) Mahatma Gandhi
  - (c) Bhagat Singh
  - [d] Laxmi Schgal
- 102. The Indian National Army was organized to fight against
  - (a) Germany and Japan
  - (b) the British in India
  - (c) Japan
  - (d) Russia
- 103. Which of the following is/are true relating to Nelson Mandela?
  - He was the first President of South Africa.
  - Mandela spent 18 years in prison on Robben Island.
  - Mandela became the President in 1990 after his release from the prison.

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

- 104. The Non-Cooperation Movement was withdrawn after the
  - (a) First World War
  - (b)- Chauri-Chaura Incident
  - (c) Bardoli Satyagraha
  - (d) Gandhi-Irwin Pact
- 105. Which of the following books was written by B. R. Ambedkar?
  - (a) The Discovery of India
  - (b) My Life
  - (c) Buddha or Karl Marx
  - (d) Hind Swaraj
- 106. Which of the following is/are correct relating to the North-Eastern Region Community Resource Management Project for upland areas?
  - It is a livelihood and rural development project aimed to transform the lives of the poor and marginalized tribal families in North-East India.
  - This Project is initiated exclusively by the North-Eastern Council.

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

- 107. Which of the following statements are true for the Fundamental Right to Life and Personal Liberty as guaranteed under Article 21 of the Constitution of India?
  - The Right is available to citizens as well as aliens.
  - 2. It covers protection against arbitrary executive and legislative action.
  - It includes the right to live with human dignity.
  - It can be taken away according to the procedure established by law.

Select the correct answer using the code given below.

- (a) 1, 2 and 3 only
- (6) 2, 3 and 4 only
- (c) 1, 2, 3 and 4
- (d) 1 and 4 only
- 108. Consider the following statements:
  - 'SAMARTH 2014', a national festival for showcasing the abilities of persons with disabilities, was organized recently in New Delhi by the Ministry of Culture.
  - India is a party to the United Nations Convention on the Rights of Persons with Disabilities.

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

- 109. Consider the following statements about 'Sahayog Kaijin':
  - It is a joint exercise of the Coast Guards of India and Japan.
  - Its 13th edition was held recently off Chennai Port.

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
- 110. Consider the following statements about grand slam tennis tournaments:
  - There are four grand slamannual tennis tournaments.
  - The first grand slam of a year is the US Open.
  - The Australian and the US tournaments are played on grass court.

Which of the statements given above is/are correct?

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

#### Directions :

The following six (6) items consist of two statements, Statement I and Statement II. You are to 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
- Statement I is true but
- (d) Statement I is false but Statement II is true

### 111. Statement I:

Minerals are formed by slow cooling of the magma.

#### Statement II:

Very small crystals are formed when lava cools quickly on the surface.

### 112. Statement I:

The Kullu Valley in Himachal Pradesh receives copious snowfall during winter.

# Statement II :

The Kullu Valley receives moisture-bearing wind of the Western Disturbances during winter.

### 113. Statement I:

The hills with dense vegetation, cover do not experience heavy soil erosion.

#### Statement II:

The vegetation cover helps infiltration of rainwater and binding of soils.

#### 114. Statement I:

The decrease of air temperature with increasing altitudes in the atmosphere is called the vertical temperature gradient.

#### Statement II:

In Troposphere, air temperature decreases with increasing altitude due to radiation from the Earth.

### 115. Statement I:

Chemical weathering processes are found more active in hot and/ humid environment.

#### Statement II:

High temperature and rainfall help in the process of decomposition of rocks.

### 116. Statement I

The acceleration due to gravity decreases with increase in height from the surface of the Earth.

#### Statement II:

The acceleration due to gravity is inversely proportional to the square of the distance from the centre of the Earth.

- 117. The pressure of an ideal gas undergoing isothermal change is increased by 10%. The volume of the gas must decrease by about
  - (a) 0·1%
  - (b) 9%
  - K) 10%
  - (d) 0.9%
- Tuareg is a pastoral nomad living in the desert of

(a) Kalahari

- (b) Sahara
- (c) Arabia
- (d) Patagonia
- 119. A passenger in a moving train tosses a coin upward which falls behind him. It implies that the motion of the train is

day accelerated

- (b) uniform
- (c) retarded
- (d) along the circular tracks

- 120. The mass number of an atom is determined by
  - (a) adding the number of neutrons and number of electrons
  - (b) adding the number of protons and number of electrons
  - (c) the number of protons only
  - (a) adding the number of neutrons and number of protons
- 121. Match List-I with List-II and select the correct answer using the code given below the Lists :

	List-I		List-II
	(Region)		(Characteristic
			vegetation)
A.	Selvas	1.	Tropophytes
B.	Savanna	2.	Mosses and
			lichens

3.

D. Monsoon land

C. Tundra

4. Grasses and trees

**Epiphytes** 

## Code:

- (a) A B C D 3 4 C (b)B D 4 1 (c) A D 3 1 (d) D 1
- 122. In optical instruments, the lenses are used to form image by the phenomenon of
  - (a) reflection
  - (b) refraction
  - scattering
  - (d) diffusion

Note the following balanced chemical equation:

Which one of the following statements is significant in relation to the above chemical equation?

- (a) One can add to a vessel only 2 mol of CO for each mol of O2 added
- (b) No matter how much of these two reagents are added to a vessel, 1 mol of O2 is consumed
- When they react, CO reacts with O2 in a 2:1 mol ratio
- When 2 mol of CO and 1 mol of O2 are placed in a vessel, they will react to give 1 mol of CO<sub>2</sub>
- 124. Which of the following is/are the most likely cause/causes of sheetflood found in western part of Rajasthan?
  - Scanty rainfall
  - Sudden high intensity rain
  - 3. Loose sandy soil with scanty vegetation

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

- Mulching, an agronomic measure of soil conservation, is very effective because it
  - protects soil from gully erosion
  - protects soil from sheetwash, and wind erosion
  - helps soil to retain moisture and nutrients

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only-
- (d) 1, 2 and 3
- 126. How many cubic centimetres (cm<sup>3</sup>)
  are in a cubic metre (m<sup>3</sup>)?
  - (a) 103
  - (b) 10<sup>6</sup>
  - (c) 10<sup>9</sup>
  - (d) 10<sup>12</sup>
- 127. A semiconducting device is connected in a series circuit with a battery and a resistance. Current is found to pass through the circuit. If the polarity of the battery is reversed, the current drops to zero. The device may be
  - (a) p-type semiconductor
  - (b) n-type semiconductor
  - (c) an intrinsic semiconductor
  - (d) p-n junction

- 128. A fertilizer contains 20% nitrogen by mass. To provide a fruit tree with an equivalent of 1 kg of nitrogen, the quantity of fertilizer required is
  - (a) 20 kg
  - (b) 0.20 kg
  - (c) 0.05 kg
  - (d) 5 kg
- 129. Why is hydrolysis an effective form of chemical decomposition of bedrock in humid tropics?
  - Humid tropics experience high temperature and humidity.
  - There is high diurnal range in temperature.

- (a) 1 only
- (b) 2 only
- Let Both 1 and 2
- (d) Neither 1 nor 2
- 130. If the distance S covered by a moving car in rectilinear motion with a speed v in time t is given by S = vt, then the car undergoes
  - (a) a uniform acceleration
  - (b) a non-uniform acceleration
  - to a uniform velocity
  - (d) a non-uniform velocity

- The phenomenon of electromagnetic induction implies a production of induced
  - (a) resistance in a coil when the magnetic field changes with time
  - (b) current in a coil when an electric field changes with time
  - (c) current in a coil when a magnetic field changes with time
  - (d) voltage in a coil when an electric field changes with time
- 132. Which one among the following is not a characteristic of a federal system?
  - (a) There are two distinct levels of government
  - (b) The responsibilities and powers of each level of government are clearly defined in a written Constitution
  - (c) There is no separation of powers between the legislative and executive branches of government
  - (d) A Supreme Court is entrusted with the responsibility of interpreting these provisions and arbitrating in matters of dispute

- 133. The Constitution of India guarantees the Fundamental Right to Freedom of Religion to all its citizens. Which among the following is not true for this Right?
  - (a) It gives freedom of conscience and freedom to profess, practice and propagate any religion
  - It gives freedom to establish and maintain institution for religious and charitable purposes
  - (c) The Right is subject to public order, morality and health
  - (d) The State cannot make any law which abrogates this Right for citizens
- 134. The Scheduled Castes and Scheduled Tribes (Prevention of Atrocities) Act, 1989 may be seen as giving effect to which of the following Fundamental Rights?
  - Equality before the Law
  - 2. Right against Discrimination
  - 3. Abolition of Untouchability
  - 4. Right to Freedom of Religion

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

- 135. Under which of the following Acts is the National Population Register being created?
  - (a) The Citizenship Act of India, 1955 as amended in 2004
  - (b) The Census Act, 1948
  - (c) The UID Act, 2010
  - (d) None of the above
  - 136. Which one among the following is not true about Bal Gangadhar Tilak?
    - (a) He started the New English School in Poona
    - (b) He founded the Shri Shivaji Fund Committee for celebration of Shiv Jayanti
    - (c) He preached the cult of self-reliance
    - (d) He transformed the household worshipping of Ganesha into a public event

- 137. The number of valence electrons in the O<sup>2-</sup> ion is
  - (a) 4
  - ADT 6
  - (c) 8
  - (d) 10
- 138. Within an animal cell, the most abundant inorganic constituent of protoplasm is
  - (a) sodium and potassium salt
  - (b) water
  - (c) iron
  - (d) phosphate
- 139. Two conducting wires A and B are made of same material. If the length of B is twice that of A and the radius of circular cross-section of A is twice that of B, then their resistances  $R_A$  and  $R_B$  are in the ratio

(Q) 2: 1

- (b) 1:2
- (c) 1:8
- (d) 1:4
- 140. Consider the following statements :

A real image

- 1. can be formed on a screen
- is always magnified and inverted

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

- 141. Which one of the following is the correct electronic configuration of chlorine?
  - (a) 2, 7, 8

Joj 2, 8, 7

(c) 2, 8, 8

- (d) 7, 8, 2
- 142. In honey, which one among the following sugars predominates?
  - (a) Sucrose
  - (b) Fructose
  - (c) Galactosa
  - (d) Maltosc,
- 143. During short-circuiting, the current flowing in the electrical circuit
  - (a) reduces substantially
  - (b) does not change
  - (c) increases instantaneously
  - (d) varies continuously
- 144. The number of aluminium ions present in 54 g of aluminium (atomic weight 27) is
  - (a) 2
  - (b) 18
  - (c) 1-1×10<sup>24</sup>
  - (et)  $1.2 \times 10^{24}$
- 145. What is 'breakbone fever' most\
  commonly known as?
  - (d) Typhoid
  - (b) Rhinitis
  - (c) Yellow fever
  - (d) Dengue

- 146. Van de Graaff generator is used for
  - (a) accelerating charged particles
  - (b) generating large currents
  - (c) generating electric field
  - (d) generating high-frequency voltage
- 147. The most stable form of carbon is
  - (a) diamond
  - (b) graphite
  - (c) fullerene
  - (d) coal
- 148. Which one among the following is not a sexually transmitted disease?
  - (a) Syphilis
  - (b) Gonorrhea
  - Scurvy
  - (d) Hepatitis B
- 149. The summer and winter seasons in a year are caused by
  - aphelion (farthest) and perihelion (nearest) positions of the Earth from the Sun during the annual revolution
  - (b) rotation of the Earth on its axis
  - (c) variation in solar insolation
  - (d) revolution of the Earth on its inclined axis
- 150. The latest discovered state of matter is
  - (a) solid
  - (b) Bose-Einstein condensate
  - (c) plasma
  - (d) liquid