# N.D. N-I-2029

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

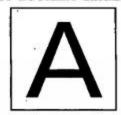
T.B.C. : O-OEBA-J-HB

TEST BOOKLET SERIES

Serial

194605

# TEST BOOKLET GENERAL ABILITY TEST



Time Allowed: Two Hours and Thirty Minutes

Maximum Marks: 600

#### 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.
- ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.
- 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 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.
- 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.
- 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 A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third (0.33) 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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·ध्यान वें : अनुदेशों का हिन्दी रूपान्तर इस पुस्तिका के पिछले पृष्ठ पर छपा है ।

# PART A SYNONYMS

## Directions (For the 8 items which follow):

Each of the following 8 items consists of a word or group of words in capital letters, followed by four words. Select the word that is most *similar* in meaning to the word or group of words in capital letters.

# ABSURD (a) Senseless (b) Clean

- (c) Abrupt
- (d) Candid

# 2. PHILANTHROPY

- (a) Generosity
- (b) Perversity
- (c) Perjury
- (d) Flaunting

# 3. INSCRUTABLE

- (a) Strange
- (b) Mysterious
- (c) Marvellous
- (d) Sublime

#### 4. EXACTLY ALIKE

- (a) United
- (b) Identical
- (c) Comparable
- (d) Regular

#### 5. MUTUAL

- (a) Reciprocal
- (b) Agreed
- (c) Common
- (d) Conjugal

## 6. IMBECILE

- (a) Astute
- (b) Cunning
- (c) Stupid
- (d) Ludicrous

#### 7. WEIRD

- (a) Beastly
- (b) Unpleasant
- (c) Frightening
- (d) Unnatural

#### 8. AVARICIOUS

- (a) Greedy
- (b) Jealous
- (c) Angry
- (d) Wicked

#### ANTONYMS

#### Directions (For the 8 items which follow) :

Each of the following 8 items consists of a word in capital letters, followed by four words. Select the word that is furthest in meaning to the word in capital letters.

- 9. EXPLOIT
  - (a) Utilize
  - (b) Alert
  - (c) Support
  - (d) Neglect
- 10. DETRIMENTAL
  - (a) Demolition
  - (b) Aversion
  - (c) Beneficial
  - (d). Bad
- 11. SHARP
  - (a) Bleak
  - (b) Blunt
  - (c) Bright
  - (d) Blond
- CONDEMN
  - (a) Censure
  - (b) Approve
    - (c) Recommend
    - (d) Praise

- 13. RELUCTANT
  - (a) Avoiding
  - (b) Anxious
  - (c) Refuse
  - (d) Eager
- 14. INTRICATE
  - (a) Complicated
  - (b) Simple
  - (c) Colourful
  - (d) Good
- 15. PENURY
  - (a) Pompous
  - (b) Luxury
  - (c) Poverty
  - (d) Punitive
- 16. EXPOSTULATE
  - (a) Protest
    - (b) Agree
    - (c) Follow
    - (d) · Argue

#### SPOTTING ERRORS

#### Directions (For the 11 items which follow):

- (i) In this Section a number of sentences are given. The sentences are underlined in three separate parts and each one is labelled (a), (b) and (c). Read each sentence to find out whether there is an error in any underlined part. No sentence has more than one error. When you find an error in any one of the underlined parts (a), (b) or (c), indicate your response on the separate Answer Sheet at the appropriate space. You may feel that there is no error in a sentence. In that case letter (d) will signify a 'No error' response.
- (ii) You are to indicate only one response for each item in your Answer Sheet. (If you indicate more than one response, your answer will be considered wrong.) Errors may be in grammar, word usage or idioms. There may be a word missing or there may be a word which should be removed.
- (iii) You are not required to correct the error. You are required only to indicate your response on the Answer Sheet.

Examples 'P' and 'Q' have been solved for you.

P.	The young c	hild singed	a very sweet song. N	lo error.
	(a)	(b)	(c)	(d)
Q.	We worked	very hard	throughout the season.	No error.
	(a)	(b)	(c)	(d)

#### Explanation:

In item P, the word 'singed' is wrong. The letter under this part is (b); so (b) is the correct answer. Similarly, for item Q, (d) is the correct answer, as the sentence does not contain any error.

17. He hesitated to accept the post as he did not think

(a)
(b)
that the salary would be enough for a man with a family of three. No error.

(c)
(d)

(a) (b)

that have been included in this volume ? No error.

(c) (d)

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(a)	(p)	(c)	. (6	1)	
Ramesh has agreed	to marry with the	girl of his p	parent's choice	No err	or.
(a)	(b)	4	(c)	(d)	
The pity is that no s	sooner he had left	the place th	an the fire br	oke out.	No er
(a)	(b)	•	(c)		(d)
When he was arriving	the party was	in full swing	. No error.	2	
(a)	(b)	(c)	(d)		
The Dean wrote he co	netitutad a sammi	· ittaa of amaant		of Guo ma	
ine Dean wrote ne co	(a)	ittee of expert	s comprising	(b)	mbers
before the next meeting		No error.		(b)	
(c)	ig took prace.	(d)		100	
I can't help to sneeze (a)	-	yesterday an	d have a bad	cold. No	
(a)  I have lived from the	(b) e hand to the mon	uth	(c)	cold. No	(d)
(a)  I have lived from the  (a)  for all these fifty year	(b) e hand to the mon (b) s though nobody	uth	(c)	cold. No	
(a)  I have lived from the  (a)  for all these fifty year	(b) e hand to the mon	uth	(c)	cold. No	(d)
(a)  I have lived from the  (a)  for all these fifty year	(b) e hand to the monoist though nobody (c)	uthknows it. N	(c) o error. (d)	cold. No	
(a)  I have lived from th  (a)  for all these fifty year	(b) e hand to the monoist though nobody (c)	uthknows it. N	(c) o error. (d)	cold. No	
(a)  I have lived from the (a)  for all these fifty year.  Both he as well as his	(b) e hand to the monoist though nobody (c)	knows it. No	(c) o error. (d)	cold. No	
(a)  I have lived from th  (a)  for all these fifty year  Both he as well as his	(b) e hand to the more (b) es though nobody (c) es friend worked	knows it. No	(c) o error. (d)	cold. No	
(a)  I have lived from the (a)  for all these fifty year.  Both he as well as his (a) on the same project.	(b) e hand to the more (b) es though nobody (c) es friend worked  No error. (d)	in close harmo	(c) o error. (d) ony		(d)
(a)  I have lived from the (a)  for all these fifty year.  Both he as well as him (a)  on the same project.  (c)	(b) e hand to the more (b) es though nobody (c) es friend worked  No error. (d)	in close harmo	(c) o error. (d) ony		(d)
(a)  I have lived from the (a)  for all these fifty year.  Both he as well as his (a) on the same project.  (c)  The Monk loved riding	(b) e hand to the more (b) s though nobody (c) s friend worked  No error. (d) g and hunting a	knows it. Notice the Notice of	(c) o error. (d) ony conform by ru		(d)

Note: The Information Provided here is only for reference. It May vary the Original

#### COMPREHENSION

#### Directions (For the 9 items which follow):

In this Section you have *three* short passages. After each passage, you will find several questions based on the passage. First, read a passage and then answer the questions based on it. You are required to select your answers based on the contents of the passage and opinion of the author only.

Examples T and J have been solved for you.

### PASSAGE (EXAMPLE)

In our approach to life, be it pragmatic or otherwise, a basic fact that confronts us squarely and unmistakably is the desire for peace, security and happiness. Different forms of life at different levels of existence make up the teeming denizens of this earth of ours. And, no matter whether they belong to the higher groups such as human beings or to the lower groups such as animals, all beings primarily seek peace, comfort and security. Life is as dear to a mute creature as it is to a man. Even the lowliest insect strives for protection against dangers that threaten its life. Just as each one of us wants to live and not to die, so do all other creatures.

- I. The author's main point is that
  - (a) different forms of life are found on earth
  - (b) different levels of existence are possible in nature
  - (c) peace and security are the chief goals of all living beings
  - (d) even the weakest creature struggles to preserve its life

- J. Which one of the following assumptions or steps is essential in developing the author's position?
  - (a) All forms of life have a single overriding goal
  - (b) The will to survive of a creature is identified with a desire for peace
  - (c) All beings are divided into higher and lower groups
  - (d) A parallel is drawn between happiness and life, and pain and death

#### Explanation:

- The idea which represents the author's main point is "peace and security are the chief goals of all living beings", which is response (c). So (c) is the correct answer.
- J. The best assumption underlying the passage is "The will to survive of a creature is identified with a desire for peace", which is response (b). So (b) is the correct answer.

#### PASSAGE I

There are eccentric people who enjoy saving money for no other reason than the pleasure of saving money. It is a passion like drinking, and a hobby like collecting of china. Does it usually begin with a money-box? Imagine a painter drawing the Miser's Progress in a number of scenes, with the first scene showing a benevolent grandfather holding out a harmless looking tin money-box to an infant scarcely able to walk. The gift should always be accompanied by a box of tools. As a young man the infant has grown into a miser. By the age of forty he has a substantial bank account. But he persuades himself that he is so poor that he never goes to the theatre, never invites a friend to dinner. By sixty he is a rich man and is convinced that he is all but a pauper.

- 28. Some people enjoy saving money because
  - (a) they are able to live a happy life
  - (b) saving is a passion with them
  - (c) they are able to enjoy the pleasures of life
  - (d) they can entertain others
- 29. If a money-box is given to a child, what should accompany it?
  - (a) Tips on the advantages of saving money
  - (b) Guidelines to preserve it
  - (c) Instructions on when and how to open it
  - (d) A box of tools to open it
- 30. A miserly man of forty does not go to the theatre because .
  - (a) he has no liking for plays
  - (b) he does not want to waste his valuable time
  - (c) he persuades himself that he is very poor
  - (d) he is frightened by the darkness of the theatre hall

#### PASSAGE II

In the fete, for a ticket costing eight annas you stood a chance of acquiring a variety of articles — pin-cushions, sewing machines, cameras or even a road engine. One evening they drew ticket number 1005, and I happened to own the other half of the ticket. They declared that I became the owner of a road engine! Don't ask me how a road engine came to be included among the prizes. It is more than I can tell you. I looked stunned. People gathered round and gazed at me as if I were some curious animal. 'Fancy anyone becoming the owner of a road engine!' some persons muttered and giggled.

- 31. The writer purchased a ticket
  - (a) to win a prize
  - (b) to enter the fete
  - (c) to buy some eatables in the fete
  - (d) to play some games
- 32. 'they' in the paragraph stands for
  - (a) the writer's friends
  - (b) the organisers of the fete
  - (c) the stall owners in the fete
  - (d) the onlookers
- 33. The writer was stunned because
  - (a) he did not win a prize
  - (b) he was at a loss as to what to do with the prize
  - (c) people giggled
  - (d) the fete organisers were rude to him

( 8 - A

#### PASSAGE III

A holiday in Uttarakhand is about supporting the economy and ecology of this fledgling state with your heart, mind and muscle. Being at the camp with your family is a great bonding experience combined with a grand taste of wild life and adventure.

First comes the walk from the lakeside to the camp. It's one of the best indicators here to 'figure' out how in or out of shape you are. Anything upwards of 15 minutes means it is time to start taking your body and fitness levels more seriously. To cool off there is always the lake where you can swim or learn how to kayak.

<ol> <li>The word which is used with a double m</li> </ol>	neaning is
--	------------

- (a) figure
- (b) fitness
- (c) shape
- (d) indicators

# 35. 'It' in the second paragraph refers to

- (a) camp
- (b) lake
- (c) holiday
- (d) walk

# 36. If you take about twenty minutes to walk from the lakeside to the camp it means that you

- (a) are not healthy enough
- (b) walk too slowly
- (c) need practice in walking
- (d) must get used to the exercise

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#### ORDERING OF SENTENCES

Directions (For the 7 items which follow):

In the following items, each passage consists of six sentences. The first sentence (S<sub>1</sub>) and the final sentence (S<sub>6</sub>) are given in the beginning. The middle four sentences in each have been removed and jumbled up. These are labelled P, Q, R and S. You are required to find out the proper sequence of the four sentences and mark accordingly on the Answer Sheet.

Example 'X' has been solved for you. .

X. S<sub>1</sub>: There was a boy named Jack.

S6: At last she turned him out of the house.

P : So the mother asked him to find work.

Q: They were very poor.

R: He lived with his mother.

S: But Jack refused to work.

The proper sequence should be

- (a) R-Q-P-S
- (b) P-Q-R-S
- (c) Q-P-R-S
- (d) R-P-S-Q

Explanation: The proper sequence in this example is R-Q-P-S which is marked by (a). Therefore, (a) is the correct answer.

- S<sub>1</sub>: I last visited Kandy almost 10 years 38.
   ago.
  - S<sub>6</sub>: Set around low, forested hills, with the Mahavelli river flowing nearby, the landscape has an intense yet tranquil beauty.
  - P: The bomb blasts and ugly face of ethnic conflict have not robbed the place of its gracious pace of life.
  - Q: The artificial lake, which dominates the landscape of the city, was built by its last king in 1806.
  - R: Located in central Sri Lanka, at an elevation of about 1,600 ft, Kandy was the last Sinhala outpost of autonomy, resisting both Portuguese and Dutch rule before it succumbed to the British in 1818.
  - S: Most famous for its Temple of the Tooth, a golden pagoda housing a sacred relic of the Buddha, Kandy is a gentle, elegant, and imperturbable city.

The proper sequence should be

- (a) R-P-Q-S
- (b) S-P-R-Q
- (c) Q-P-S-R
- (d) P-S-Q-R

- S<sub>1</sub>: The status of women in our country is, on the whole, far from high.
  - S<sub>6</sub>: Education can lift these women out of the depths of misery and ignorance into which they have sunk.
  - P: But the plight of women in villages is still miserable.
  - Q: The educated women in cities enjoy equality with the men folk.
  - R: The Movement for the Freedom and Rights of Women has certainly been steadily gaining momentum.
  - S: Their education has been thoroughly neglected.

The proper sequence should be

- (a) R-P-Q-S
- (b) R-Q-P-S
- (c) S-Q-P-R
- (d) S-P-Q-R
- 39. S1: Edison was an inventor of great ability.
  - S<sub>6</sub>: In the other he pinned the bills owed to
  - P: But he had two big books in his office.
  - Q: In one of them he stuck the bills he owed.
  - R: He did not keep account books.
  - S: But he was not a very good businessman.

The proper sequence should be

- (a) P-Q-R-S
- (b) S-R-Q-P
- (c) S-R-P-Q
- (d) R-P-Q-S

- 40. Si: I never knew my father or my mother.
  - S<sub>6</sub>: There were no children nearby, and so I wandered around in a lonely way.
  - P: I was brought up by my sister, much older than I.
  - Q: They died when I was very young.
  - R: When Gul Mohammad was working at his forge, I used to spend as much time as possible out of doors.
  - S: She married the village blacksmith, Gul Mohammad, and I must say that he was kinder to me than she was.

The proper sequence should be

- (a) Q-P-S-R
- (b) S-R-Q-P
- (c) Q-S-R-P
- (d) P-Q-R-S
- S<sub>1</sub>: We voyaged for many months, stopping at islands to barter our goods.
  - S<sub>6</sub>: Presently I rested under a shady tree, had my meal and fell asleep by a murmuring brook.
  - P: My companions and I went ashore surprised by the abundance of fruit and water on the land.
  - Q: But I strolled on leaving them behind.
  - R: One day winds guided our ships to an uninhabited island.
  - S: The men wandered around enjoying the delights of the place.

The proper sequence should be

- (a) P-R-S-Q
- (b) R-P-S-Q
- (c) P-R-Q-S
- (d) R-P-Q-S

- S<sub>1</sub>: Ashoka became an ardent Buddhist and tried his utmost to spread the Dharma.
  - S<sub>6</sub>: Buddhism thus introduced the elements of peace and tolerance in many societies.
  - P: It was only by winning men's hearts that he sought to make converts.
  - Q: The Buddhists attracted followers by their own example of peace and non-violence.
  - R: But there was no force or compulsion.
  - S: Thus Ashoka helped in spreading Buddhism far and wide in the world.

The proper sequence should be

- (a) R-P-Q-S
- (b) Q-P-R-S
- (c) R-P-S-Q
- (d) P-S-Q-R
- S<sub>1</sub>: Some people prefer country life to city life.
  - S<sub>6</sub>: For these reasons more and more people are leaving the country to live in the city.
  - P: Country people live longer and generally seem to be healthier and happier.
  - Q: And a chance to meet more and more people.
  - R: Life in the country is quieter, cleaner and less hectic.
  - S: However, the city offers more excitement and job opportunities.

The proper sequence should be

- (a) P-R-Q-S
- (b) R-P-Q-S
- (c) P-Q-R-S
- (d) R-P-S-Q

#### ORDERING OF WORDS IN A SENTENCE

#### Directions (For the 7 items which follow):

In the following items, some parts of the sentence have been jumbled up. You are required to rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence and mark in your Answer Sheet accordingly.

Example 'Z' has been solved for you.

Some people believe that on children of cinema is very bad

Which one of the following is the correct sequence?

- (a) P-S-R-Q
- (b) S-P-Q-R
- (c) S-R-P-Q
- (d) Q-S-R-P

#### Explanation:

The proper way of writing the sentence is "Some people believe that the effect of cinema on children is very bad." This is indicated by the sequence P - S - R - Q and so (a) is the correct answer.

# in estimating the size of the earth

but they were hampered by the lack of instruments of precision ancient astronomers

used methods which were theoretically valid

Which one of the following is the correct sequence?

- (a) R-P-Q-S
- (b) P-R-Q-S
- (c) R-S-Q-P
- (d) R-P-S-Q

# 45. it is a pity that by offering a handsome dowry a number of parents think that

# they will be able to ensure the happiness of their daughters

Which one of the following is the correct sequence ?

- (a) S-Q-R-P
- (b) P-R-S-Q
- (c) P-S-R-Q
- (d) P-R-Q-S

# 46. The common man in nurturing a more active role communal harmony should play

Which one of the following is the correct sequence ?

- (a) P-R-S-Q
- (b) S-Q-P-R
- (c) S-Q-R-P
- (d) P-R-Q-S

Which one of the following is the correct sequence?

- (a) S-P-R-Q
- (b) P-R-Q-S
- (c) P-R-S-Q
- (d) S-P-Q-R

48. was suspended the officer being corrupt before his dismissal from service

Which one of the following is the correct sequence?

- (a) Q-P-S-R
- (b) Q-P-R-S
- (c) R-S-Q-P
- (d) R-S-P-Q

49. With an unsteady hand on my desk from his pocket he took an envelope and threw it

•	Q	R	S
		No. 00000	

Which one of the following is the correct sequence ?

- (a) Q R P S
- (b) Q-R-S-P
- (c) R-Q-P-S
- (d) R = Q S P

50. she gave her old coat to a beggar the one with the brown fur on it shivering with cold

Which one of the following is the correct sequence?

- (a) S-Q-R-P
- (b) S-P-R-Q
- (c) P-R-Q-S
- (d) P-S-Q-R

PART B 51. Crocodiles store fats in 54. (a) head stomach (b) (c) tail (d) arteries B. Pushpa Bhuyan 52. In which one of the following is a great dark plain called "Maria" found ? (a) Earth (b) Mars (c) Jupiter (d) Moon 53. Match List I with List II and select the (c) correct answer using the code given below the lists: List I List II (Novel) (Winner of 55.

	Book	ker Pri	ze)		
Α.	Arund	lhati R	oy	1.	In a Free State
B.	Kiran	Desai		2.	The God of Small Things
C.	Salma	n Rus	hdie	3.	The White Tiger
D.	). V.S. Naipaul				The Inheritance of Loss
				5.	Midnight's Children
Co	de :				
	A	В	c	D	
(a)	1	5	3	2	
(b)	1	3	4	2	
(c)	2	5	3	1	
(d)	2	4	5	1	i i
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Match List I with List II and select the correct answer using the code given below the lists:

List I	List II		
(Exponent)	(Dance form)		

- A. Surendranath Jena
- 1. Kathakali 2. Kathak
- C. Birju Maharaj
- 3. Bharat Natyam
- D. Sankaran Embranthiri
- 4. Odissi

# Code:

A	В	C	r
1	D	-	

- (a)
- (b) 3
- (d)
- Match List I with List II and select the correct answer using the code given below the lists:

List I (Person)	List II (Industrial Unit
A. Indira Nooyi	1. Airtel
B. Mukesh Ambani	2. Wipro
C. Sunil Mittal	3. Pepsi
D. Azim Premji	4. Reliance

# Code:

	A	В	C	D
(a)	3	1	4	2
(b)	2	1	4	3
(c)	2	4	1	3
(4)	Q	4	1	9

#### भाग В

		(5)				भाग	В							
51.	मगरम		कहाँ संग्रह	रेत करत	A # 7		54.	सूची नीचे	I को र दिए गए	सूची II रे	सुमेलित योग कर	त कीडि सही :	तए और सूचिय उत्तर चुनिए :	र्क ते
	(a) (b)	सिर में उदर में							सूर्वी (प्रतिपा	1			सूची II (नृत्य रूप)	
	(c)	पुरस् में	i					A.	सुरेन्द्रन	ाथ जेना		1.	कथकली	
	(d)	धमनिय	तें में		25 9	W 18		В.	पुष्पा भ	ऱ्याँ		2.	कथक	
SF					10			C.	बिरजू	महाराज		3.	भरतनाट्यम	
52.		लिखित में पाया ज		क में "	मारिया" नामक	बृहद् अदीप्त		D.	Blacker.	इम्ब्रान्थि	री	4.	ओडिसी	
	(a)	पृथ्वी	100					ठ्रू						
	(b)	मंगल				97			A	В	С	D		
	(c)	बृहस्पति	ते		1	*		(a)	1	2	3	4		
	(d)	चन्द्रमा						(b)	4 .	3		1	80 14	
	•						150	(c)	1	3	2	1		
53.	सूची	I को सू	थी II से सु	मेलित र सही	कीजिए <mark>और सूर्</mark> उत्तर चुनिए :	चेयों के नीचे •		(d)	4	2	3.			
		सूची			सूची II (उपन्यास)		55.	सूची नीचे	ा को दिए गए	सूची II र कूट का !	से सुमेलि प्रयोग कर	त कीर सही	जेए और सूचिव उत्तर चुनिए :	शें के
	A. ·		ती रॉय	1.	इन ए फ्री स्टे				सूची । (व्यत्ति			(औरा	पूची II ोगिक इकाई)	
	B.	किरन	देसाई	2.	दि गाँड ऑफ	स्पॉल थिंग्स		Α, .	इन्दिरा	नूयी	*	1.	एंयंरटेल	
£	C.	सतमा	न रक्ष्दी	3.	दि व्हाइट टाइ	गर		В.	ं मुकेश	अम्बानी		2.	विप्रो	
	D.	वी.एस	. नायपॉल	4.	दि इनहेरिटैन्स	म ऑफ लॉस		C.	सुनील	मित्तल		3.	पेप्सी	
	-	20		5.	मिडनाइट्स वि	वेल्ड्रेन		D.	अज़ीम	प्रेमजी		4.	रिलायन्स	
	ठुट	-	1	2000				कुट	:					
		A	В	С	D				A	В	C	D		
	(a)	1	5	3	2	84		(a)	3	1.	4	2		
	(b)	1	3	4	2.		1	(b)	2	1	4	3		
	(c)	2	5	3	. 1			(c)	2	4	1	3	. 9	
	(d)	2	4	5	1			(d)	3	4	1	2		

56. Match List I with List II and select the 58. correct answer using the code given below the lists:

List I	List II		
(Institute)	(Location)		
	mental services		

- A. National 1. Pune Institute of Immunology
- B. National 2. Manesar Centre for Cell Science
- C. Centre for DNA

  Fingerprinting
  and Diagnostics

  3. Hyderabad

4. New Delhi

D. National Brain Research Centre

# Code:

	A	В	C	D	
(a)	2	3 .	1	4	
(b)	à	1	3	2	
(e)	1	3	1	2	
(d)	2	1	3	4	1.

- 57. Who among the following is the winner of the Wimbledon Men's Singles title 2008?
  - (a) Roger Federer
  - (b) Rafael Nadal
  - (c) Novak Djokovic
  - (d) Andy Roddick

- 58. Consider the following statements :
  - Lamba in Gujarat is famous for wind power plant.
  - Manikaran in Himachal Pradesh is famous for geothermal energy plant.

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
- The metal compound commonly found in Sindhoor or Kumkum is based on
  - (a) Tin
  - (b) Lead
  - . (c) Copper
    - (d) Zinc
- 60. Alum is used as
  - (a) an analgesic
  - (b) a fertilizer
  - (c) a disinfectant
  - (d) a purifier for water
- 61. Which among the following elements (metals) pollutes the air of a city having large number of automobiles?
  - (a) Cadmium
  - (b) Lead
  - (c) Chromium
  - (d) Nickel

56. सूची I को सूची II से सुमेलित कीजिए और सूचियों के 58. नीचे दिए गए कूट का प्रयोग कर सही उत्तर चुनिए :

सुची I	सूची 11
(संस्थान)	 (अवस्थिति)

- नेशनल इन्स्टिट्यूट ऑफ इम्यूनोलोजी
  - नेश्चानल सेन्टर फॉर 2. मानेसर सेल साइन्स

प्रणे

- C. सेन्टर फॉर डी.एन.ए. 3. हैदराबाद फिंगरप्रिंटिंग एण्ड डायग्नोस्टिक्स
- D. नेशनल ब्रेन रिसर्च सेन्टर 4. नई दिल्ली

# कूट :

B.

	A	В	C	D ·	10
(a)	2	3	1	4	
(b)	4	1	3	2	
(c).	4	3	. 1	2	
(d)	2	1 -	3	4	

- 57. निम्निलिखित में से कौन विम्बलडन पुरुष एकल टाइटल 2008 का विजेता है ?
  - (a) रोजर फेडरर
  - (b) रैफेल नडाल
  - (c) नोवाक ज़ोकोविक
  - (d) एन्डी रौडिक

- निम्नलिखित कथनों पर विचार कीजिए :
  - गुजरात में लाम्बा पवन शक्ति संयंत्र के लिए प्रसिद्ध है ।
  - हिमाचल प्रदेश में मानीकरण भूतापीय ऊर्जा संयंत्र के लिए प्रसिद्ध है ।

उपर्युक्त में से कौन सा/से कथन सही हैं/हैं ?

- (a) केवल 1
- (b) केवल 2
- (c) 1 और 2 दोनों
- (d) न तो 1 और न ही 2
- 59. सिंदूर या कुमकुम में सामान्यतया पाया जाने वाला धातु यौगिक किस पर आधारित है ?
  - (a) **ट**न
  - (b) सीसा
  - (c) ताँबा
  - (d) जस्ता
- 60. फिटकरी का इस्तेमाल किस रूप में होता है ?
  - tendents and fittings lands and or form for
    - (a) पीड़ाहारी
    - (b) उर्वरक
    - (c) रोगाणुनाशी
    - (d) जल शोधक .
- अत्यधिक वाहन संख्या वाले शहर की वायु को प्रदूषित करने वाला निम्निलिखत में से कौनसा तत्त्व (धातु) है ?
  - (a) कैडमियम
  - .(b) सीसा
  - (c) क्रोमियम
  - (d) निकैल

- 62. Oxygen and ozone are
  - (a) allotropes
  - (b) isomers
  - (c) isotopes
  - (d) isobars
- 63. When applied to the affected area, which one of the following will relieve the pain due to ant-bite or bee-sting?
  - (a) Lemon juice
  - (b) Vinegar
  - (c) Baking soda
  - (d) Caustic soda
- 64. Which among the following is a chemical change?
  - (a) A wet towel dries in the sun
  - (b) Lemon juice added to tea causing its colour to change
  - (c) Hot air rises over a radiator
  - (d) 'Coffee is brewed by passing steam through ground coffee
- 65. Which among the following is an element?
  - (a) Alumina
  - (b) Brass
  - (c) Graphite
  - (d) Silica
- 66. Consider the following equation for the formation of ammonia from nitrogen and hydrogen:

$$N_2 + 3H_2 = 2NH_3$$

How many hydrogen molecules are required to react with 100 molecules of nitrogen?

- (a) 100
- (b) 200
- (c) 300
- (d) 400

- 67. Which one among the following is used as a moderator in nuclear reactors?
  - (a) Ozone
  - (b) Heavy hydrogen
  - (c) Heavy water
  - (d) Hydrogen peroxide
- 68. Which one of the following contains maximum percentage of nitrogen by mass?
  - (a) Urea
  - (b) Ammonium cyanide
  - (c) Ammonium carbonate
  - (d) Ammonium nitrate
- 69. Match List I with List II and select the correct answer using the code given below the lists:

(	List Subst	t I (ance)	S)		List II (Raw Material)			
A.	Gla	88		1.	Fat and caustic alkali			
B.	Soa	p		2.	Cellulose fibre and gelatin			
C.	Pap	er		3.	Silicates of calcium and aluminium			
D.	Cement		ent		Silica			
Cod	le :							
	A	В	C	D				
(a)	3 .	2	. 1	4	•			
(b)	4	2	1	3				
(c)	3	1	. 2	4				

(d)

62.	ऑक्सीजन व	ओज़ोन	निम्न	में	से	क्या र	ŧ	7	
-----	-----------	-------	-------	-----	----	--------	---	---	--

- अपररूप (a)
- समावयवी (b)
- समस्थानिक (c)
- समभारिक परमाण् (d)
- चींटी काटने या भ्रमर दंश से प्रभावित क्षेत्र में लगाने पर 63. निम्नलिखित में से कौनसा एक, दर्द निवारण करेगा ?
  - नींबू का रस (a)
  - सिरका (b)
  - बेकिंग सोडा (c)
  - कास्टिक सोडा (d)
- निम्नलिखित में से कौनसा रासायनिक बदलाव है ?
  - एक गीला तौलिया धूप में सूख जाता है
  - चाय में नींबू रस डालने से इसका रंग बदल जाता है (b)
  - रेडिएटर के ऊपर गरम वायु उठती है (c)

  - धूरा कॉफी से वाष्प गुजारने से कॉफी निसवन होती है (d)
- निम्नलिखित में से कौनसा एक तत्त्व है ? 65.
  - ऐलुमिना (a)
  - पीतल (b)
  - ग्रैफाइट (c)
  - सिलिका (d)
- नाइट्रोजन व हाइड्रोजन से अमोनिया बनने के निम्नलिखित 66. समीकरण पर विचार कीजिए :

 $N_2 + 3H_2 = 2NH_3$ नाइट्रोजन के 100 अणुओं से अभिक्रिया करने के लिए कितने हाइड्रोजन अणुओं की ज़रूरत होगी ?

100 (b) 200

(a)

- (c) 300
- (d) 400

- नाभिकीय रिएक्टरों में निम्नलिखित में से कौनसा एक,
  - विमंदक की तरह इस्तेमाल होता है ?
  - ओजोन (a)
  - भारी हाइड्रोजन
  - भारी पानी
  - हाइड्रोजन परऑक्साइड
- निम्नलिखित में से किसमें, द्रव्यमान की दृष्टि से अधिकतम 68. प्रतिशत नाइट्रोजन पाया जाता है ?
  - (a) यूरिया
    - अमोनियम साइनाइड
    - अमोनियम कार्बोनेट (c)
    - अमोनियम नाइट्रेट (d)
- सूची I को सूची II से सुमेलित कीजिए और सूचियों के नीचे 69. दिए गए कूट का प्रयोग कर सही उत्तर चुनिए :

सूची I सूची II (कच्ची सामग्री) (द्रव्य)

- कांच 1. वसा व दाहक क्षार
  - 2. सेलुलोस तन्तु व जिलेटिन B. साबुन
  - 3. कैल्सियम व ऐलुमिनियम के C. कागज सिलिकेट
  - 4. सिलिका सीमेन्ट D. कुट :
  - B C D
  - 1 (a)
- (b) 2 1 3
  - . 2 1 (c)
  - (d) 1 3

- 70. Two elements gallium and oxygen combine to 74. form a compound Ga<sub>2</sub>O<sub>3</sub>. Which among the following is the valency of gallium?
  - (a) 1
  - (b) 2
  - (c) 3
  - (d) 4
- 71. Vinegar is the trade name of
  - (a) Acetic acid
  - (b) Chloroform
  - (c) Carbon tetrachloride
  - (d) Ethyl alcohol
- 72. Consider the following statements regarding
  - 1. It is an allotrope of silicon.
  - It is a bad conductor of heat and electricity.
  - It is the hardest substance.
  - 4. It burns to produce carbon dioxide.

Which of the statements given above are correct?

- (a) 1, 2, 3 and 4
- (b) 2, 3 and 4 only
- (c) 1 and 2 only
- (d) 1, 3 and 4 only
- 73. Which one of the following chemicals is used in Beauty Parlours for hair-setting?
  - (a) Sulphur based
  - (b) Phosphorus based
  - (c) Silicon based
  - (d) Iron based

- 74. Non-conductors, whose polarization is caused by an electric field, are known as
  - (a) Semi-conductors
  - (b) Super-conductors
  - (c) Dielectrics
  - (d) Resistive conductors
  - 75. The resistance of a wire that must be placed parallel with a 12  $\Omega$  resistance to obtain a combined resistance of 4  $\Omega$  is
    - (a) 2 Ω
    - (b) 4 Ω
    - (c) 6 Ω
    - (d) 8 Q
  - 76. One light year is equal to
    - (a)  $9-46 \times 10^{-15}$  m
    - (b) 9.46 × 10<sup>15</sup> m
    - (c) 9·46 × 10<sup>-13</sup> m
    - (d) 9-46 × 10<sup>13</sup> m
  - 77. Which among the following thermometers is preferred for measuring temperature around 1250°C?
    - (a) Mercury thermometer
    - (b) Constant volume gas thermometer
    - (c) Optical pyrometer
    - (d) Platinum resistance thermometer

- गैलियम व ऑक्सीजन दो तत्त्व मिलकर Ga<sub>2</sub>O<sub>3</sub> यौगिक 74.
   बनाते हैं । निम्नलिखित में से गैलियम की संयोजकता क्या है ?
  - (a) 1
  - (b) 2
  - (c) 3
  - (d) 4
- 71. सिरका किसका व्यापारिक नाम है ?
  - (a) ऐसीटिक अम्ल
  - (b) क्लोरोफॉर्म
  - (c) कार्बन टेट्राक्लोराइड
  - (d) एथिल ऐल्कोहॉल
- 72. हीरा के बारे में निम्नलिखित कथनों प<mark>र विचार</mark> कीजिए :
  - 1. यह सिलिकन का अपररूप है।
  - 2. यह ताप व विद्युत का कुचालक है।
  - 3. यह सबसे कठोर पदार्थ है।
  - यह जलकर कार्बन डाइऑक्साइड उत्पादित करता है । उपर्यक्त कथनों में से कौनसे सही हैं ?
  - (a) 1, 2, 3 और 4
  - (b) केवल 2, 3 और 4
  - (c) केवल 1 और 2
  - (d) केवल 1, 3 और 4
- ब्यूटी पार्लरों में केश-विन्यास के लिए निम्नलिखित में से कौनसा रसायन इस्तेमाल होता है ?
  - (a) सल्फर आधारित
  - (b) फॉस्फोरस आधारित
  - (c) सिलिकन आधारित
  - (d) लोह आधारित

- वे अचालक, जिनका ध्रुवण विद्युत्-क्षेत्र के कारण होता है, क्या कहलाते हैं ?
  - (a) अर्धचालक
  - (b) अतिचालक
  - (c) परावैद्युत
  - (d) प्रतिरोधक चालक
- संयुक्त प्रतिरोध 4 Ω पाने के लिए कितने प्रतिरोध की तार एक 12 Ω प्रतिरोधक के समानान्तर में लगानी चाहिए ?
  - (a) 2Ω
  - (b) 4 Ω
  - (c) 6 Ω
  - (d) 8Ω
- 76. निम्नितिखित में से कौनसा एक प्रकाश वर्ष के बराबर है ?
  - (a) 9-46 × 10<sup>-15</sup> m
  - (b) 9.46 × 10<sup>15</sup> m
  - (c)  $9.46 \times 10^{-13}$  m
  - (d) 9.46 × 10<sup>13</sup> m
- लगभग 1250°C तापमान नापने के लिए निम्नलिखित में से कौनसा तापमापी इस्तेमाल होता है ?
  - (a) पारा तापमापी
  - (b) स्थिर आयतन गैस तापमापी
  - (c) प्रकाशीय उत्तापमापी
  - (d) प्लॅटिनम प्रतिरोध तापमापी

- What is the mass of one litre of cottonseed oil 83. of density 926 kg/m<sup>3</sup>?
  - (a) 926 kg
  - (b) 92.6 kg
  - (e) 0-926 kg
  - (d) 9260 kg
- 79. The wavelength of X-rays is of the order of
  - (a) 1 mm
  - (b) 1 cm
  - (c) 1 micron
  - (d) 1 angstrom
- 80. In vacuum, the speed of light
  - (a) depends on its wavelength
  - (b) depends on its frequency
  - (c) depends on its intensity
  - (d) neither depends on its wavelength, frequency nor intensity
- 81. Which one of the following statements correctly defines power?
  - (a) Energy supplied per unit time
  - (b) Energy of an object due to its motion
  - (c) Energy of an object due to its position
  - (d) None of the above
- 82. The electric charge is stored in a device called
  - (a) Inductor
  - (b) Capacitor
  - (c) Resistor
  - (d) Transformer

- Consider the following parts of spectra:
  - Visible
  - 2. Infrared
  - 3. Ultraviolet
  - 4. Microwave

Which one of the following is the correct sequence in which their wavelengths increase?

- (a) 4-3-1-2
- (b) 4-1-2-3
- (c) 3-2-1-4
- (d) 3-1-2-4
- 84. Propagation of light quanta may be described by
  - (a) Photons
  - (b) Protons
  - (c) Neutrons
  - (d) Electrons
- 85. Which one of the following is not electromagnetic in nature?
  - (a) Cathode-rays
  - (b) X-rays
  - (c) Gamma-rays
  - (d) Infrared-rays

926 kg/m<sup>3</sup> घनत्व वाले बिनौले तेल के एक लिटर का 83. स्पेक्ट्रमों के निम्नलिखित भागों पर विचार कीजिए : द्वयमान कितना होता है ?

926 kg (a)

78.

79.

80.

81.

(b) 92-6 kg

(c) 0.926 kg

9260 kg

X-किरणों की तरंगदेध्यं की कोटि क्या है ?

1 mm (b) 1 cm

(a)

1 माइक्रॉन (c)

1 ऐंग्स्ट्रम (d)

निर्वात में प्रकाश की चाल

(a) इसकी तरंगदैर्घ्य पर निर्भर करती है (b) इसकी आवत्ति पर निर्भर करती है

इसकी तीव्रता पर निर्भर करती है

(d) यह न तो तरंगदैर्घ्य, न आवृत्ति और न ही तीव्रता पर

निर्भर करती है

परिभाषित करता है ? (a) प्रदाय की गई ऊर्जा प्रति इकाई समय

निम्नलिखित में से कौनसा एक कथन शक्ति को सही-सही

(b) एक पिण्ड की उसकी गति के कारण ऊर्जा

(c) एक पिण्ड की उसके स्थान के कारण ऊर्जा

(d) उपर्युक्त में से कोई नहीं

जिस युक्ति में विद्युत् आवेश संग्रहित किया जाता है उसको

क्या कहते हैं ? (a) प्रेरक

संधारित्र (b)

प्रतिरोधक (c)

(d) परिणामित्र

दृश्य

अवरक्त 2.

परार्देगनी 3.

सूक्ष्म-तरंग

सा एक सही अनुक्रम है ? (a) 4-3-1-2

उनके तरंगदैर्ध्य के बढ़ते हुए क्रम में निम्नलिखित में से कौन

प्रकाश क्वान्टा के संचरण की व्याख्या किसके द्वारा की

निम्नलिखित में से कॉनसी किरणें विद्युत्-चुम्बकीय प्रकृति

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

(d) 3-1-2-4

जाती है ? फोटॉन (a)

84.

85.

प्रोटॉन

(b)

(c)

(d)

न्यूट्रॉन

इलेक्ट्रॉन

को नहीं दर्शाती हैं ?

कथोड-किरणें

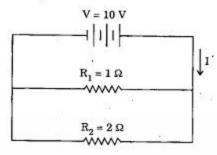
X-किरणें

(b)

गामा-किरणें (c)

अवरक्त-किरणें (d)

86.



Which one of the following is the value of current I in the circuit shown above?

- (a) 5 A
- (b) 10 A
- (c) 15 A
- (d) 20 A

 The force experienced by a unit positive test charge placed at a point is called

- (a) Magnetic field at that point
- (b) Gravitational field at that point
- (c) Electrical field at that point
- (d) Nuclear field at that point

88. A long jumper runs before jumping because he

- (a) covers a greater distance
- (b) maintains momentum conservation
- (c) gains energy by running
- (d) gains momentum

89. Which among the following is the necessary condition for simple harmonic motion ?

- (a) Constant period
- (b) Constant acceleration
- (c) Displacement and acceleration are proportional
- (d) Displacement and torque are proportional

90. Consider the following four particles:

- Alpha particle
- Proton
- 3. Electron

4. Neutron

Which of the following is the correct sequence in which their rest-masses increase?

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

 If an α-particle is projected normally through a uniform magnetic field, then the path of the α-particle inside the field will be

- (a) circular
- (b) parabolic
- (c) elliptic
- (d) a straight line