

Directions for questions 1 to 5: Read the Passage below and answer the question.

The sun is the most abundant source of energy in the solar system. Every day, 173,000 tera-watts¹ of energy-100,000 times more energy than humans use-strike the earth in the form of sunlight. Sunlight consists of visible light; ultra violet light, which is responsible for the production of Vitamin D in our skin; and infrared radiation, which heats the air, water, and ground, and constitutes nearly 50 percent of the total solar radiation reaching the earth. Without the sun, life on Earth would not exist. One would think that all that free, available energy would have been **harnessed** long ago, but only in recent decades have people taken a serious interest in the sun as a source of **alternative renewable** energy.

So far, the world has relied on wood, oil, coal, and natural gas to produce energy for **heating, lighting, transportation, and manufacturing. Since the 1950s, the world consumption has been** increasing **relentlessly**. In the year 2000, 80 percent of commercial energy was generated from the **combustion** of fossil fuels, and every day, 50 million barrels of oil are **refined** and converted to gasoline and other fuels, in addition to the rapid **depletion** of fossil fuels, the consequences of high consumption rates are pollution and global warming.

Increasing **concentrations** of carbon dioxide (CO₂) in the atmosphere have been causing global temperatures to rise, with the greatest increase occurring in the last decade. In the 1990s, global CO₂ emissions rose by 1.3 percent per year. Between 2000 and 2006, annual CO₂ emissions increased to 3.3 percent, and since then they have been accelerating. To meet the 50-60 percent increase in energy demand by 2030, as predicted by the International Energy Agency, and to prevent the disastrous effects of global warming, people have been looking to the sun.

The most practical form of solar energy is passive solar energy, which occurs when natural light floods in through windows or is **absorbed** by stone or concrete walls. In 1956, the world's first commercial solar building was constructed in Albuquerque, New Mexico, by engineers Frank Bridgers and Don Paxton. Considered ahead of its time, architect Francis Stanley's design provided for large sloping south-facing windows to capture infrared radiation, following the same principles used by the ancient Romans to heat their bathhouses. Passive solar energy is now being incorporated into environmentally friendly building designs, which include double- or triple-glazed windows and insulated walls and ceilings to trap heat, Trombe walls painted black to maximize the absorption of infrared radiation, and mirrors or fiber optics to enhance natural lighting.

1. Match the words with their meanings:

List - I

- (A) constitutes
(B) abundant
(C) absorb
(D) depletion

List - II

- (I) take in
(II) exhaustion
(III) to form
(IV) plenty

Choose the correct answer from the options given below:

- (1) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
(2) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
(3) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
(4) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

2. Eighty percent of commercial energy comes from -

- (1) solar energy (2) fossil fuel
(3) hydro electricity (4) carbon dioxide

3. The world's first commercial solar building was built in -

- (1) Germany (2) France
(3) New Mexico (4) Japan

4. Ultra violet light is responsible for the production of _____ in our skin.

- (1) Vitamin A (2) Vitamin B
(3) Vitamin C (4) Vitamin D

5. Find out the word from the passage which is an antonym of 'decreasing'.

- (1) relied (2) absorbed
(3) accelerating (4) diminishing

Directions for questions 6 to 10: Read the Poem below and answer the question.

A Bird Came Down

A Bird, came down the Walk -

He did not know I saw

He bit an Angle Worm in halves

And ate the fellow, raw,

And then, he drank a Dew

From a convenient Grass -

And then hopped sidewise to the Wall

To let Beetle pass -

He glanced with rapid eyes,

That hurried all abroad -

They looked like frightened Beads, I thought,

He stirred his Velvet Head -

Like one in danger, Cautious,
 I offered him a Crumb,
 And he unrolled his feathers,
 And rowed him softer Home -
 Than Oars divide the Ocean,
 Too silver for a seam,
 Or Butterflies, off Banks of Noon,
 Leap, splashless as they swim.

6. What is the poem about -
 (1) a fight between the poet and the bird
 (2) a bird eating an insect
 (3) an ordinary occurrence in nature, of a bird searching for food and eating
 (4) a bird teaching how to catch a prey
7. Choose the correct option
 And ate the fellow, raw.
 Who is the "fellow" here ?
 (1) The Angle worm (2) The beetle
 (3) The Dew (4) The crumb
8. How does the poet describe the eyes of tire bird -
 (1) watery like dew
 (2) like grass
 (3) like frightened beads
 (4) like butterflies
9. Choose the figure of speech in the line.
 'They looked like frightened beads'.
 (1) Metaphor (2) Personification
 (3) Hyperbole (4) Simile
10. "Cautious" is used in reference to which character in the poem
 (1) the poet (2) the bird
 (3) the beetle (4) the worm

Directions for questions 11 to 15: Read the Passage below and answer the question.

The ITR extends 17 km along the seacoast where number of tracking instruments have been deployed along the flight path of the test vehicles. Some of the significant test facilities at the ITR are a mobile and fixed electro-optical tracking system, mobile S-band tracking radar, fixed C-band tracking radar, fixed and mobile telemetry system, range computer, photo processing system, meteorological system and range safety systems. An expert system has been developed or aiding safety decisions during launch. The ITR is slowly but surely growing into a world-class range.

It was a hot and humid midnight sometime in July 1995. We were going through the results of the fourth

consecutive successful flight of Prithvi. People's faces were lit up with success. There was a mood of celebration. More than thirty of us, representing 1,200 hard-working team members, were pondering over the question - what next ? Lt. Gen. Ramesh Khosla, Director General Artillery, suggested that the Army needed a flight test on a land range with the accuracy of impact at the final destination within 150 meters. This is called Circular Error Probability (CEP) in technical terms.

We started test-firing our missiles from the Sriharikota Range of ISRO but needed our own missile test range. The Interim Test Range (ITR) was established in 1989 as a dedicated range for launching missiles, rockets and flight test vehicles. A number of missiles of different class including the multi-role Trishul, multi-target capable Akash, the anti-tank Nag missile, the surface-to-surface missile Prithvi, and the long-range technology demonstrator Agni have been test-fired from the ITR. BrahMos, the Indo-Russian joint venture set up to develop supersonic cruise missiles, has also been tested at this range. The ITR has also supported a number of other missions such as testing of the multi-barrel rocket launcher Pinaka and the pilotless aircraft Lakshya.

11. According to the passage, the Interim Test Range (ITR) was established in the year ?
 (1) 1983 (2) 1989
 (3) 1986 (4) 1980
12. According to the passage, which of the following is NOT included in the test facilities at the ITR ?
 (1) Infiltration Prevention and tracking system
 (2) Electro-optical tracking system
 (3) C-band tracking radar
 (4) Mobile S-band tracking radar
13. According to the passage, what is the full form of CEP ?
 (1) Circular Electronic Pole
 (2) Commercial Entry Pass
 (3) Common Election Program
 (4) Circular Error Probability
14. According to the passage, ITR has supported which of the following missions ?
 (A) Gandiv
 (B) Pinaka
 (C) Sudarshan
 (D) Lakshya
 (E) BrahMos

Choose the correct answer from the options given below :

- (1) (A) and (C) Only (2) (B) and (C) Only
 (3) (B), (D) and (E) Only (4) (D) and (A) Only

15. According to the passage, which of the following missiles was not test-fired from the ITR ?

- (1) Indradhanush (2) Akash
(3) Nag (4) Trishul

16. The antonym of the word 'antagonism' is _____.

- (1) Cordiality (2) Animosity
(3) Hostility (4) Enmity

17. Choose the best alternative to complete the given sentence from the options given below.

They are having trouble _____ the contract.

- (1) nailing in (2) nailing down
(3) nailing for (4) nailing up

18. There is an error in a part of the sentence. Spot the error.

- (A) As soon as
(B) I shall reach Mumbai
(C) I shall send you
(D) the file
(E) you have asked for

Choose the correct answer from the options given below

- (1) (A) Only (2) (B) Only
(3) (C) Only (4) (D) and (E) Only

19. Choose the correct option.

Give the meaning of the word - Nota Bene

- (1) pen name
(2) way of living
(3) member of poor class
(4) take note

20. Fill in the blank with the correct Modal out of the given options.

Urvashi's sister certainly _____ disapproved the tone of her sister took to address the house-help.

- (1) could have (2) will have
(3) would have (4) would be

21. Change the following sentence into indirect speech. She said, "My brother has gone out".

- (1) She said her brother is out.
(2) Her brother went out, she said.
(3) She said that her brother had gone out.
(4) Her brother went to market.

22. Which part of the sentence shows an improper usage of the articles 'a', 'an' or 'the' ?

A few books / that the students had were all /

- (A) (B)

in a pathetic condition.

- (C)

- (1) (A) (2) (B)

- (3) (A) and (B) (4) (C)

23. 'Isn't it' can be used as a question tag for which of these questions?

- (A) It's raining heavily, ____ ?
(B) She can swim well, ____ ?
(C) It is a bright sunny day, ____ ?
(D) This is my pencil, ____ ?
(E) There is a sweet shop in that street, ____ ?

Choose the correct answer from the options given below :

- (1) (A), (B) and (C) Only
(2) (A) and (C) Only
(3) (B), (C) and (E) Only
(4) (A), (C) and (E) Only

24. Identify the word that should be removed from the sentence to make it grammatically correct.

Have you ever tried to get a too thpaste back into the tube?

- (1) ever (2) a
(3) back (4) into

25. Rearrange the phrases in sequence to get a proper sentence

- (A) essential part
(B) form an
(C) the sculptures and paintings
(D) of the overall aura of
(E) the temple architecture

Choose the correct answer from the options given below :

- (1) (A), (B), (C), (D), (E) (2) (C), (A), (B), (E), (D)
(3) (C), (B), (A), (D), (E) (4) (E), (A), (B), (D), (C)

26. Out of the four alternatives, select the one that suggests the same sentence in Indirect Speech.

He said, "How can a Zebra talk ?"

- (1) He wondered how a Zebra talks.
(2) He questioned a Zebra talking.
(3) He wondered how a Zebra could talk.
(4) He was amazed how a Zebra can talk.

27. Match the preposition with the sentences to complete the blank. Match List - I with List - II.

List - I

- (A) He fell _____ the bicycle.
- (B) For a woman _____ sixty, she looks young.
- (C) Curd is made _____ milk.
- (D) Put the books _____ the table.

List - II

- (I) of
- (II) on
- (III) off
- (IV) from

Choose the correct answer from the options given below

- (1) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)
- (2) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (3) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- (4) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)

28. This ointment would help _____ the cuts on your _____.

Fill in the blanks with the correct set of homophones:

- (1) heel, heal (2) heat heel
- (3) peel, heel (4) heal, knee

29. Identify the part of the sentence that has an error from the options given below.

- (A) Even after
- (B) taking tuitions
- (C) my dau ghter
- (D) is not at the home
- (E) in Maths

Choose the correct answer from the options given below :

- (1) (A) Only (2) (B) Only
- (3) (C) and (E) Only (4) (D) Only

30. Out of four alternatives, choose the one that best expresses the meaning of the Latin phrase, 'Bona fide'.

- (1) Carried out with responsibility
- (2) Carried out in good faith
- (3) Carried out with feelings
- (4) Something that is familiar

31. Fill in the blanks with correct article. Match List - I with List - II

List - I

- (A) Sanskrit is _____ difficult language
- (B) Joshuna got _____ best gift
- (C) _____ gold is a precious metal
- (D) You will take only _____ hour to reach my place

List - II

- (I) no article
- (II) an
- (III) a
- (IV) the

Choose the correct answer from the options given below

- (1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (2) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
- (3) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
- (4) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

32. Fill in the blank with the correct Modal. Himanshu is _____ getting up early in the morning.

- (1) should (2) need not
- (3) used to (4) ought to

33. Rearrange the jumbled sentences into a paragraph.

- (A) try to solve the questions one by one.
- (B) underline the sentences and write the answers in your own words
- (C) to solve a passage read the questions first.
- (D) read the passage slowly and carefully.
- (E) identify the key words and phrases.

Choose the correct answer from the options given below :

- (1) (A), (E), (C), (B), (D)
- (2) (C), (A), (E), (D), (B)
- (3) (C), (D), (A), (E), (B)
- (4) (B), (C), (D), (A), (E)

34. Match List - I with List - II

List - I (Word)

List - II (Antonym)

- (A) outflow (I) unpleasant
- (B) pleasant (II) opening
- (C) closing (III) uncluttered
- (D) cluttered (IV) inflow

Choose the correct answer from the options given below

- (1) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (2) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- (3) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- (4) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)

35. Rearrange the jumbled words to make a meaningful sentence.

- (A) called proton
- (B) two fundamental particles
- (C) the nucleus of an atom
- (D) and neutron
- (E) is made up of

Choose the correct answer from the options given below :

- (1) (A), (E), (B), (D), (C) (2) (C), (E), (B), (A), (D)
- (3) (C), (A), (E), (D), (B) (4) (B), (E), (C), (A), (D)

36. Out of the four alternatives, choose the one that best expresses the given sentence in passive Voice.

'Mohan will have won the match'.

- (1) The match will have been won by Mohan
- (2) The match would have been won by Mohan.
- (3) The match was won by Mohan.
- (4) The match will be won by Mohan.

37. Match the idioms in List - I with the meanings in List - II

List - I

- (A) To give a person a cold shoulder
- (B) To rip up old scores
- (C) To plough the sands
- (D) To draw a line

List - II

- (I) Doing that seems impossible
- (II) To fix a limit
- (III) To show no interest
- (IV) To reopen a quarrel

Choose the correct answer from the options given below :

- (1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (2) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- (3) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (4) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)

38. Out of the four alternatives, choose the correct meaning of the given word - STUBBORN

- (1) One who is not flexible in behaviour.
- (2) One who cannot be corrected.
- (3) One who deserves respect.
- (4) One who tries to sound more learned than others.

39. Fill in the blank with the suitable preposition

She refused _____ answer me.

- (1) for (2) with
- (3) to (4) by

40. The teacher told the students to invent a story to go with the picture in their notebooks, and then continue with their exercises. She said they could all omit exercise 5.

Replace the underlined words in the above paragraph with suitable phrasal verbs (in correct sequence):

- (1) make up, carry on, understand.
- (2) carry on, make up, leave out.
- (3) identify to, finish up, understand.
- (4) make up, carry on, leave out.

41. Change the following sentence into an Exclamatory Sentence.

Such a girl and my friend.

Choose the correct answer from the options given below :

- (1) It is shocking that such a girl is my friend.
- (2) It is shocking to have such a friend.
- (3) It was shocking to have a friend.
- (4) Shocking that such a girl is my friend.

42. Choose the adverbs from the following:

- (A) hard
- (B) hardly
- (C) beauty
- (D) beautiful
- (E) quickly

Choose the correct answer from the options given below :

- (1) (A) and (D) Only
- (2) (B) and (E) Only
- (3) (A), (C) and (D) Only
- (4) (A), (B), (C) and (D) Only

43. Out of the four alternatives, choose the one that best expresses the meaning of the given words - cereal, serial

- (1) cereal - breakfast food, serial - sequential
- (2) cereal - sequential, serial - breakfast food
- (3) cereal - breakfast food, serial - grains
- (4) cereal - sequential, serial - TV show

44. Match the words List - I with the idioms List - II.

List - I

- (A) pretence
- (B) annoy
- (C) prosperous
- (D) confused

List - II

- (I) palmy days
- (II) a stalking horse
- (III) lost in the clouds
- (IV) rub one the wrong way

Choose the correct answer from the options given below :

- (1) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (2) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (3) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (4) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)

Choose the correct answer from the options given below :

45. In letter writing 'date' is NOT written in the following format

- (A) 10 Jan 2023
- (B) Jan 10, 2023
- (C) 2023/1/10
- (D) XII/XXIII

Choose the correct answer from the options given below :

- (1) (A) Only
- (2) (C) and (D) Only
- (3) (B) Only
- (4) (C) Only

46. A sentence has been given in Active Voice. Out of the four alternatives suggested, select the one which best expresses the same in Passive Voice.

'The police is unduly harassing me'.

- (1) I am unduly harassed by the police.
- (2) I have being unduly harassed by the police.
- (3) I am being unduly harassed by the police.
- (4) I have been harassed.

47. How would you address the recipient of an informal letter?

- (1) My dear
- (2) Dear Mr/Mrs
- (3) Dear Sir/Madam
- (4) Hello Sir/Madam

48. From the given four alternatives, choose the option that serves as an Adjective Clause in the given sentence.

'Mary had a little lamb whose fleece was as white as snow'.

- (1) 'a little
- (2) little lamb
- (3) as white as snow
- (4) whose fleece was as white as snow

49. Fill in the blank with correct adverb.

Rohit met with an accident _____.

- (1) since
- (2) yesterday
- (3) late
- (4) daily

50. Change the following sentence into an Exclamatory Sentence. He is a very polite boy.

Choose the correct answer from the options given below :

- (1) He was quite a polite boy.
- (2) No boy was as polite.
- (3) He is not a polite boy.
- (4) What a polite boy he is.