



DRONESHWAR DEFENCE ACADEMY

Air force Group Y – Memory Based Paper Shift 3rd

(15 July 2021)

Total Time: 45 minutes

Total Marks : 50

Instructions

| S.No | Section Name | No. of Question | Maximum Marks | Negative Marks | Positive Marks | Sectional Timing |
|------|--------------|-----------------|---------------|----------------|----------------|------------------|
| 1 | English | 20 | 20 | 0.25 | 1 | 20 Min |
| 2 | RAGA | 30 | 30 | 0.25 | 1 | 25 Min |

English

1. Select the most appropriate antonym of the given word.

VIGILANT

(a) Visible (b) elusive (c) Careless (d) Careful

2. Direction: Find the correct synonym of the given word

Afraid

(a) brave (b) scared (c) calm (d) happy

3. Out of all the alternatives given, select the word which closely fits the given definition

Place where leather is produced and processed

(a) Studio (b) Tannery (c) Treasury (d) Wardrobe

4. Choose the one word which can be substituted for given group of words:

A person who studies the influence of heavenly bodies on human beings.

(a) Atronomer (b) Astrologer (c) Ambassador (d) Chauffeur

5. Direction: Choose the correctly spelt word from the given option.

(a) Unecessary (b) Unneccessary



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(c) Unnecessary

(d) Unnecessary

6. Direction: Choose the correctly spelt word.

(a) Pleasant

(b) Pliesant

(c) Plisaent

(d) Pleasant

7. Direction: Given below is a short passage followed by some items based on the passage. First, read the passage and answer the items based on it. You are required to select your answers based on the contents of the passage and the opinion of the author only.

Nearly every night of our lives, we undergo a startling metamorphosis. Our brain profoundly alters its behavior and purpose, dimming our consciousness. For a while, we become almost entirely paralyzed. We can't even shiver. Our eyes, however, periodically dart about behind closed lids as if seeing, and the tiny muscles in our middle ear, even in silence, move as though hearing. We are stimulated, men and women both, repeatedly. We sometimes believe we can fly. We approach the frontiers of death. We sleep. Around 350 B.C., Aristotle wrote an essay, "On Sleep and Sleeplessness," wondering just what we were doing and why. For the next 2,300 years, no one had a good answer. In 1924 German psychiatrist Hans Berger invented the electroencephalograph, which records electrical activity in the brain, and the study of sleep shifted from philosophy to science.

How does our brain dim our consciousness?

(a) by sleeping

(b) by exercising alot

(c) by extremely changing its behaviour

(d) by using modern techniques

8. What was/were recorded by electroencephalograph?

(a) all the magnetic activities in our brain

(b) shivering of our body

(c) all the electrical activities in our brain



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(d) sensitivity of our body

9. The most suitable title of the passage would be:

(a) Your body's asleep, but your Mind is wide awake

(b) Types of dreams

(c) What decides the nature of our dream

(d) How to overcome sleeplessness

10. Which of the following words could replace the word 'shiver' as used in the passage?

(a) Shake

(b) Cross

(c) Shift

(d) finish

11. Direction: In the following question, parts of a sentence have been jumbled and labelled as P, Q, R, and S. You are required to rearrange the jumbled parts of the sentence and mark your response accordingly by selecting the correct option.

P. The American Electric Power plant In Conesville, Ohio

Q. Burned its last ton

R. Of coal in April 2020

S. After helping to keep lights on in Ohio for 63 years

(a) PRQS

(b) PSQR

(c) PQRS

(d) PQSR

12. He was accused ____ theft.

(a) with

(b) of

(c) for

(d) at

13. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select No Error.

A lot of (1) students was (2) absent today (3) No error (4)

(a) 1

(b) 2

(c) 3

(d) 4

14. He was ____ me in the queue.



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(Choose the correct preposition)

- (a) behind (b) inside (c) about (d) from

15. Direction: Fill in the blanks with the correct word from the given options.

I have been waiting for you _____ seven o'clock.

- (a) at (b) for (c) on (d) since

16. Direction: In the following sentences, four words or phrases have been underlined. One of them is incorrect. Choose the incorrect word or phrase from the options.

He is one of the great men who has helped him.

- (a) He is (b) one of the
(c) who has (d) helped him

17. Direction: Change the Voice -

He was arrested by the detective.

- (a) The detective was arrested him.
(b) The detective arrested by him
(c) The detective arrested him.
(d) The detective arrest him

18. Direction: Choose the correct spelling of the word among the following:

- (a) Necessitey (b) Neccessity
(c) Necessity (d) None of these

19. Direction: Change the Narration-

Amrita says, "I have already seen this movie."

- (a) Amrita says that she has already seen that movie
(b) Amrita says that she had already seen that movie



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(c) Amrita says that she has already seen this movie.

(d) Amrita said that she has already seen that movie.

20. Direction: Choose the most appropriate answer and fill in the blanks.

The adjective form of 'Attention' is _____.

(a) Attended

(b) Attending

(c) Attentive

(d) None of these

21. Ram has to cover a certain distance in a specified time. If he moves at the speed of 24 kmph, he will get late by 1 hour and if he moves at the speed of 30 kmph, he will reach 1 hour early. Find the distance.

(a) 160

(b) 240

(c) 380

(d) 480

22. There are 55 kg of apples in a box. If 3 kg of these are rotten. The price of the apple box is Rs. 2750. If he sell at Rs. 55 per kg. What is the profit after selling all the apples?

(a) Rs 110

(b) Rs. 120

(c) Rs. 105

(d) Rs. 95

23. Mira scored some runs in her continuous 9 innings. She scored 50 runs in her 10th innings and thus her average decreased by 4 runs. What was the average runs at the end of the 10th innings?

(a) 80

(b) 94

(c) 90

(d) 86

24. 6 men or 8 boys can do a piece of work in 18 days, then how many days will 3 men and 5 boys take to do the same work?

(a) 16 days

(b) 20 days

(c) 18 days

(d) 22 days

25. If the ratio of two numbers is 2 : 7 and the product of their L.C.M and H.C.F is 686. Find the greatest number

(a) 14

(b) 49

(c) 7

(d) 21

26. What is the value of $\sin^2 60 + \tan^2 45 + \sec^2 45 - \operatorname{cosec}^2 30$?

(a) 4

(b) $\frac{1}{4}$

(c) $-\frac{1}{4}$

(d) -4



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27. If the side of the square is increased by 5 cm, then the area increases by 175 cm². The side of the square is:

- (a) 15cm (b) 20 cm (c) 18 cm (d) 17 cm

28. Two trains of same length are moving in the same direction at the velocity of 46 km per hour and 36 km per hour respectively. The fast train crosses the slow train in 36 seconds. What is the length of each train?

- (a) 50 m (b) 72 m (c) 80 m (d) 82 m

29. Who is the present defence minister of India?

- (a) Rajnath singh (b) Amit Shah
(c) V. K. Singh (d) Ravi Shankar Prasad

30. Name of the lander associated with India's second Lunar Exploration mission "Chandrayaan- 2"

- (a) Pragyan (b) Vikram (c) Rohini (d) Bhaskara

31. Hampi is located on the bank of which river?

- (a) Tungabhadra (b) Malaprabha
(c) Ghataprabha (d) Bhima

32. Kanha National Park is located in

- (a) Bihar (b) Tamil Nadu
(c) Andhra Pradesh (d) Madhya Pradesh

33. Which of the following gas leaked from a tank in LG Polymers (South Korean company) in Visakhapatnam in May 2020?

- (a) Methyl isocyanate (b) Methane
(c) Styrene (d) Carbon Monoxide

34. What is the capital of Japan?

- (a) Tokyo (b) Kathmandu



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(c) Lahore

(d) None of these

35. Birth place of Gautam Buddha is ____.

(a) Lumbini

(b) Bodh Gaya

(c) Samath

(d) Takshashila

36. In the given series, which option will come in place of the question mark (?)?

1, 1, 4, 8, 9, 27, ?

(a) 15

(b) 25

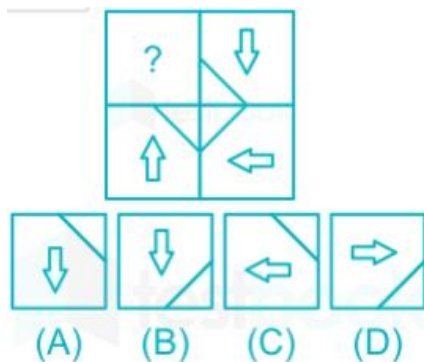
(c) 16

(d) None of these

37. If the mirror is placed on the line AB, then which of the answer figures is the right image of the given figure?



39. Which answer figure will complete the pattern in the question figure?



(a) A

(b) B

(c) C

(d) D



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39. Pointing to a woman, a man said, "The son of her only brother is the brother of my wife." How is the woman related to the man?

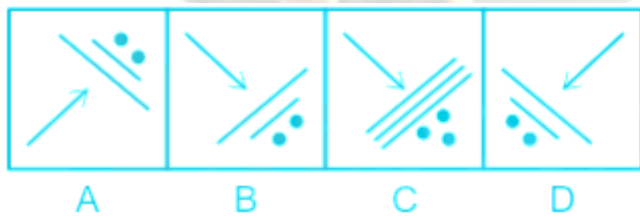
- (a) Father-in-law's sister (b) Grandmother
 (c) Mother's Sister (d) Mother-in-law

40. In the following question, select the related number from the given alternatives.

11 : 143 :: 15 : ?

- (a) 256 (b) 235 (c) 255 (d) 245

41. Chose the odd figure in the series.



- (a) D (b) A (c) C (d) B

42. Choose the figure from the options that would follow next in the given series.



- (a)  (b) 
 (c)  (d) 



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43. Three out of the following for options share a similarity. Select the option that is different from the others.

- (a) Candela (b) Newton (c) Pascal (d) Watt

44. In a code language CAMEL is written as XPOGT and RABBITS as YPVVLEZ. How can AMERICA be written in that code?

- (a) POGYLFX (b) OPGYLPX (c) POGLXPY (d) POGYLXP

45. From the given alternative words, select the word which cannot be formed using the letters of the given words:

SUPERINTENDENT

- (a) PRETEND (b) DENTIST (c) RETAIN (d) REUSE

46. Select the option that is related to the third word in the same way as the second word is related to the first word.

Depression : Mood :: Insomnia : ?

- (a) Sleep (b) Thinking (c) Night (d) Dreams

47. Select the option that is related to the third term in the same way as the second term is related to the first term.

DL : JR :: FN : ?

- (a) LS (b) MU (c) KS (d) LT

48. In a certain code language, NAMELY is coded as 74 and MANAGE is coded as 45. How will MUSHER be coded in that language?

- (a) 69 (b) 72 (c) 80 (d) 88

49. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

- (1) Freeze (2) Freedom (3) Fryer (4) Frozen
(5) Fraud (6) Fringe

- (a) 5, 6, 2, 1, 4, 3 (b) 5, 2, 1, 6, 3, 4



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(c) 5, 1, 2, 6, 4, 3

(d) 5, 2, 1, 6, 4, 3

50. In a certain code language, INTERACT is written as TNIRETCA. How will SATURDAY be written in that language?

(a) UTASYADR

(b) ASUTDRYA

(c) TASURYDA

(d) TASRUYAD

