



DRONESHWAR DEFENCE ACADEMY

Air force Group Y – Memory Based Paper Shift 2nd

(16 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. Choose the most appropriate synonym

COMMUTE

(a) increase (b) exchange (c) uphold (d) None of these

2. Choose the appropriate preposition from the given alternatives

Mr. Sreyas lives adjacent _____ the children's park in Hooghly.

(a) To (b) beside (c) behind (d) From

3. Direction: In the following question, a sentence is given in Direct/Indirect speech. Out of the four alternatives choose the one which best expresses the sentence in Indirect/Direct Speech.

Palak said, "I saw the documents."

(a) Palak said that she had seen the documents

(b) Palak said that I saw the documents

(c) Palak said that I had seen the documents

(d) Palak said that she will see the documents

4. Directions: Select the correct passive form of the given sentence.

My daughter writes very humorous poems



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- (a) Very humorous poems are written by my daughter
- (b) My daughter is writing very humorous poems.
- (c) Very humorous poems were written by my daughter.
- (d) Very humorous poems are being written by my daughter.

5. In the following question, parts of a sentence have been jumbled and labeled as A, B, C, and D. You are required to rearrange the jumbled parts of the sentence and mark your response accordingly by selecting the correct option.

- (a) the telephone and electric companies
- (b) the streets are paved now, and
- (c) the shade trees-the water oaks, the maples, etc.
- (d) are cutting down more and more of

- (a) BADC
- (b) ADCB
- (c) DCBA
- (d) DABC

6. Select the correct one-word for the given group of words:

One who offers his service of his own free will

- (a) Servant
- (b) Worker
- (c) Volunteer
- (d) Crew

7. Directions: The following sentence in this section has a blank space and four words or group of words are given after the sentence. Select the most appropriate word or group of words for the blank space. and indicate your response accordingly.

If I ____ a good match, I would have got married.

- (a) had found
- (b) have found
- (c) found
- (d) have

8. Directions: Fill in the blanks in the following sentences with the help of options that follow

If you set your mind to a goal, you _____ it for sure.



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- (a) achieve (b) will achieve
(c) achieved (d) have achieved

9. Direction: Fill in the blank with the correct Preposition.

The stories in Arabian Nights are really full _____ excitement.

- (a) with (b) for (c) by (d) of

10. Choose the most appropriate preposition for the given sentence.

A beautiful green bird flew ____ the mountain

- (a) at (b) in (c) on (d) over

11. Direction: Read the passage given below and answer the question that follows: (Q.No. 1 to 4)

Global warming is a term used for the observed century-scale rise in the average temperature of the Earth's climate system and its related effects. Scientists are more than 95% certain that nearly all of the global warming is caused by increasing concentrations of greenhouse gases (GHGs) and other human-caused emissions. Within the earth's atmosphere, accumulating greenhouse gases like water vapor, carbon dioxide, methane, nitrous oxide, and ozone are the gases within the atmosphere that absorb and emit heat radiation. Increasing or decreasing amounts of greenhouse gases within the atmosphere act to either hold in or release more of the heat from the sun. Our atmosphere is getting hotter, more turbulent, and more unpredictable because of the "boiling and churning" effect caused by the heat-trapping greenhouse gases within the upper layers of our atmosphere. With each increase of carbon, methane, or other greenhouse gas levels in the atmosphere, our local weather and global climate are further agitated, heated, and "boiled."

What percentage of certainty is showed by scientists that nearly all of global warming is caused by increasing concentrations of greenhouse gases?

- (a) Less than 95% (b) Equal to 95%
(c) More than 95% (d) More than 98%



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12. Our atmosphere is getting hotter, more turbulent, and more unpredictable because of:

- (a) boiling and churning effect
- (b) boiling and melting effect
- (c) melting and churning effect
- (d) boiling and heating effect

13. With each increase of which gas levels in the atmosphere, our local weather and global climate are further agitated?

- (a) Carbon, methane, or other greenhouse gas.
- (b) oxygen, carbon and methane
- (c) oxygen, methane, or other greenhouse gas.
- (d) carbon, butane, or other greenhouse gas

14. Which of the following words could replace the word 'turbulent' as used in the passage?

- (a) Disturbing
- (b) Frightening
- (c) transient
- (d) tempestuous

15. Direction: Select the segment of the sentence that contains the grammatical error. If there is no error, mark 'No error' as your answer.

The audience has (A)/ taken (B)/ their seats. (C)/ No error (D)

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

16. Direction: Select the option that is similar in meaning to the given word and mark your response accordingly.

Edit

- (a) Cancel
- (b) Improve
- (c) Reassign
- (d) Ignore



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17. Direction: Select the option that is opposite in meaning to the given word and mark your response accordingly.

Revelation

- (a) Consideration (b) Judgement
(c) Concealment (d) Destruction

18. Direction: Verb form of 'Examination' is _____

- (a) Exam (b) Examination
(c) Examine (d) Examiner

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

- (a) Adorable (b) Nourishment
(c) Surraundings (d) Oblijation

20. Direction: Find out which part has an error and mark it as your answer. If there is no error, mark 'No error' as your answer.

The woman broke up (A) / when the police told her (B) / that her son had died. (C) / No error (D)

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

21. With which state is the folk dance 'Garba' associated ?

- (a) Rajasthan (b) Gujarat
(c) Andhra Pradesh (d) Himachal Pradesh

22. AIDS is caused by

- (a) Rickettsia (b) Fungus (c) Bacteria (d) Virus

23. The youngest fold mountain in the world is _____

- (a) Aravali (b) Himalaya (c) Andes (d) Vindhya

24. Which of the following is not an output device?



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- A. Plotter B. Speaker C. Printer D. Scanner
(a) C (b) A (c) B (d) D
25. The headquarters of SERUM INSTITUTE OF INDIA PVT. LTD. located in?
(a) Kolkata (b) Pune (c) Hyderabad (d) Chennai
26. Who is first Indian badminton player to win gold medal in the world badminton championship?
(a) Ashwani Ponappa (b) Saina Nehwal
(c) Jwala Gutta (d) PV Sindhu
27. How many spokes are there in the Ashoka Chakra depicted on the National flag of India?
(a) 36 (b) 24 (c) 16 (d) 32
28. The perimeter and the area of a rectangular sheet are 42 m and 108 m² , respectively. The length of the diagonal is:
(a) 12m (b) 15m (c) 10 m (d) 14 m
29. $2^{2x+4} = 16^x$ then x^4 is:
(a) 8 (b) 16 (c) 81 (d) None of these
30. A boat goes 18 km upstream and comes back to its starting point in 2 h and 24 min. If the speed of the current is 4 km/h, what will be the speed of the boat in still water?
(a) 18 (b) 14 (c) 16 (d) 20
31. Three numbers are in the ratio $\frac{1}{4} : \frac{5}{9} : \frac{7}{12}$. The difference between the greatest and the smallest number is 180. Find the sum of all the three numbers.
(a) 500 (b) 650 (c) 750 (d) 800
32. If the cost of production of an article is $\frac{2}{5}$ of its marked retail price. If it is sold at 10% discount then what will be profit?



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- (a) 25% (b) 40% (c) 50% (d) 125%

33. A bag contains 2 black, 3 yellow and 2 purple balls. Two balls are drawn at random. What is the probability that none of the balls drawn is purple?

- (a) $\frac{10}{21}$ (b) $\frac{11}{21}$ (c) $\frac{4}{3}$ (d) $\frac{6}{5}$

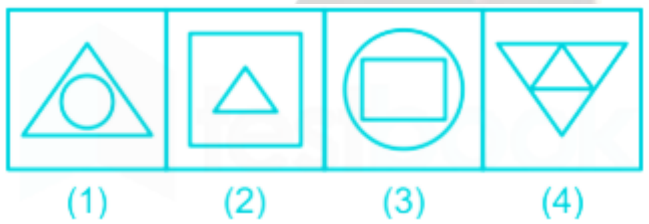
34. If $\cot A = 12/5$, then the value of $(\sin A + \cos A) \times \operatorname{cosec} A$ is

- (a) 17/5 (b) 13/5 (c) 14/5 (d) 1

35. A can complete a piece of work in 20 days and B alone can complete the work in 30 days. Due to some other work, A had to leave the work before completion and for the last 5 days B alone did the work. The total time taken to complete the work is:

- (a) 12 days (b) 18 days (c) 20 days (d) 15 days

36. Choose the figure which is different from the rest.



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

37. What is the maximum number of triangles in this image?



- (a) 19 (b) 14 (c) 10 (d) 17

38. In the following question, select the related number from the given alternatives. $6 : 42 :: 9 : ?$

- (a) 65 (b) 90 (c) 81 (d) 49



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39. Arrange the given words in the sequence in which they occur in the dictionary.

1. Mcguffay

2. Mcguffin

3. Mccauley

4. Mccarthy

5. McMaster

(a) 43152

(b) 42351

(c) 42315

(d) 43125

40. Select the number that will come next in the number series.

0, 2, 6, 14, 30, 62, ?

(a) 126

(b) 128

(c) 124

(d) 130

41. In a certain code language, 'RACER' is coded as '46', 'USAGE' is coded as '54'. What is the code for 'ESSAY' in this code language?

(a) 69

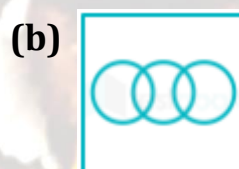
(b) 72

(c) 70

(d) 75

42. Which of the following Venn diagrams best represents the relationship among the following classes ?

Students, Brothers, Males





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44. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Doctor : Cardiologist

(a) Surgeon : Operation

(b) Engineer : Chemical Engineer

(c) Teacher : Education

(d) Nurse : Injection

45. In certain code language, LEADER is written as ELDARE How will FOUNTAIN be written as in that code language?

(a) FONUATIN

(b) OFUNATIN

(c) OFNUATNI

(d) FOUNTANI

46. In a certain code language if MILK is coded as 1112913, BAT is coded as 2012, then what will POT be coded as ?

(a) 201515

(b) 201516

(c) 201517

(d) 201514

47. Complete the following analogy.

Shoes : Leather :: Rubber : ?

(a) Latex

(b) Chappal

(c) Plastic

(d) Polythene

48. P walked 40m towards West, took a left turn and walked 30m. He then took a right turn and walked 20m. He again took a right turn and walked 30m. How far is he from the starting point?

(a) 60 m

(b) 40 m

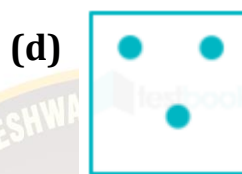
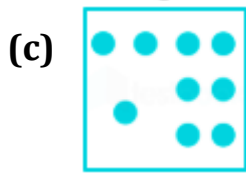
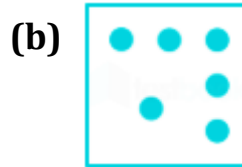
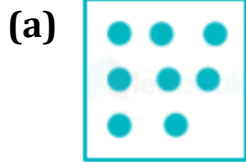
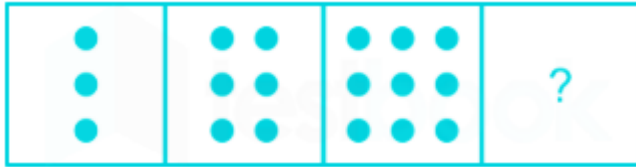
(c) 20 m

(d) 80 m

49. Study the given pattern carefully and select the image from among the given options that can replace the question mark (?).



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50. Pointing to a person, Rahim (male) said to Karim, "he is the father of my mother's brother's only son." How is Rahim related to a person?

(a) Uncle

(b) Nephew

(c) Father

(d) Brother