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Answer Key for Air Force Group Y Model Question Paper 2018

1	1	2	2	3	3	4	3	5	3
6	3	7	2	8	4	9	2	10	1
11	1	12	4	13	4	14	3	15	2
16	4	17	2	18	4	19	3	20	3
21	3	22	2	23	4	24	3	25	3
26	4	27	3	28	3	29	3	30	1
31	1	32	1	33	4	34	4	35	3
36	4	37	3	38	2	39	2	40	3
41	3	42	2	43	4	44	4	45	1
46	1	47	3	48	4	49	2	50	4





Quantitative Aptitude, General Awareness, Reasoning Ability

1.

Average = sum of numbers/total numbers

$$\Rightarrow 14 = \text{sum of 12 numbers} / 12$$

$$\Rightarrow \text{sum of 12 numbers} = 14 \times 12 = 168$$

Let the numbers be $a_1, a_2, a_3, \dots, a_{12}$

$$\Rightarrow a_1 + a_2 + a_3 + \dots + a_{12} = 168$$

If each number is doubled,

Numbers will be, $2a_1, 2a_2, 2a_3, \dots, 2a_{12}$

$$\Rightarrow 2a_1 + 2a_2 + 2a_3 + \dots + 2a_{12} = 2(a_1 + a_2 + a_3 + \dots + a_{12}) = 2 \times 168 = 336$$

New average = sum of numbers / total numbers = $336/12 = 28$

shortcut method:

If all the numbers are doubled then average will also be doubled

$$\text{New average} = 2 \times 14 = 28$$

2.

Given,

$$S = 1500$$

$$\Rightarrow R = 1500 + 1500 \times (20/100)$$

$$R = 1500 + 300 = 1800$$

$$\Rightarrow Q = 1800 + 1800 \times (50/100)$$

$$Q = 1800 + 900 = 2700$$

$$\Rightarrow P = 2700 - 2700 \times (60/100)$$

$$\Rightarrow P = 2700 - 1620$$

$$\therefore P = 1080$$

3.

$\frac{1}{3} : \frac{1}{4}$ is the same as $1 \times 4 : 1 \times 3$ i.e., $4 : 3$

$$\text{Share of A} = \frac{4}{7} \times 84 = 48$$

$$\text{Share of B} = \frac{3}{7} \times 84 = 36$$

$$\text{Difference} = 48 - 36 = 12$$

Alternatively:

Since the ratio is $4 : 3$, the difference is $\frac{4}{7} - \frac{3}{7} = \frac{1}{7}$

$$\text{The difference of the profits} = \frac{1}{7} \text{ of } 84 = 12$$

4.

Taking cube on both sides of $x + y = 3$ gives $x^3 + y^3 + 3xy(x + y) = 27$ ----(1)

And we know that $x + y = 3$

$$\Rightarrow x^3 + y^3 + 3xy(x + y) = x^3 + y^3 + 3xy(3) = x^3 + y^3 + 9xy = 27 \text{ (From eq. 1)}$$

$$\therefore \text{Value of } x^3 + y^3 + 9xy = 27$$

5.

Selling price = S.P

Cost price = C.P

Selling price of 10 articles = cost price of 15 articles

$$\Rightarrow 10 \text{ S.P} = 15 \text{ C.P}$$

$$\Rightarrow \text{S.P} = 1.5 \text{ C.P}$$

$$\text{Profit percentage} = (\text{profit}/\text{C.P}) \times 100 = \{(S.P - C.P)/C.P\} \times 100 = \{(1.5C.P - C.P)/C.P\} \times 100 = 0.5 \times 100 = 50\%$$



6.

Let the sum of money be Rs. 'P'

When the interest is compounded annually,

$$\text{Compound interest} = \text{Principal} \times [(1 + \text{Rate}/100)^{\text{Time}} - 1]$$

$$\Rightarrow 1681 = P \times [(1 + 5/100)^2 - 1]$$

$$\Rightarrow 1681 = P \times [(21/20)^2 - 1]$$

$$\Rightarrow 1681 = P \times [441/400 - 1]$$

$$\Rightarrow 1681 = P \times 41/400$$

$$\Rightarrow P = 1681 \times 400/41$$

$$\Rightarrow P = 41 \times 400 = \text{Rs. } 16400$$

∴ The sum of money is Rs. 16400

7.

$$\text{Speed} = 50\text{m/s} = (50 \times 18)/5 = 180 \text{ km/hr}$$

Time = 5 hours

$$\therefore \text{Distance} = \text{Speed} \times \text{Time} = 180 \times 5 = 900 \text{ km}$$

8.

Let the other side be x cm.

$$\text{Length of diagonal} = \sqrt{(x^2 + 24^2)} \text{ cm} = 25 \text{ cm}$$

$$\Rightarrow x^2 + 24^2 = 25^2$$

$$\Rightarrow x^2 = 625 - 576 = 49$$

$$\Rightarrow x = 7$$

$$\therefore \text{Area of the rectangle} = 7 \text{ cm} \times 24 \text{ cm} = 168 \text{ cm}^2$$

9.

- The Railways have been allocated Rs. 64,587 Cr. in the Interim Budget 2019-20.
- Infrastructure allocation for North Eastern areas was increased by 21% to Rs. 58,166 Cr. in 2019-20.
- Rs. 1330 Cr. was provided for the Mission for Protection and Empowerment for Women for 2019-20.
- The defence budget was hiked to Rs. 3,05,296 Cr.

10.

Switzerland	The Playground of Europe
Scotland	Land of Cakes
Netherlands	Land of Windmills, Land of Tulips, Land of Canals

11.

Ghumura Dance (or Ghumra Dance) is one of the leading folk dance forms in Odisha. It is classified as a folk dance as the dress code of Ghumura resembles that of tribal dances. This dance is one of the most popular dances of the Kalahandi district.

12.

Peacetime Gallantry Award	Ashok Chakra Award
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	Kirti Chakra
	Shaurya Chakra
Wartime Gallantry Awards	Param Vir Chakra
	Maha Vir Chakra
	Vir Chakra
Wartime Distinguished Service	Sarvottam Yudh Seva Medal
	Uttam Yudh Seva Medal
	Yudh Seva Medal

- According to Article 108 of the Indian Constitution, the President has the authority to summon a joint meeting of both the Houses of the Parliament in case of a deadlock between them.
- The President can also dissolve the Lok Sabha (Article 85).
- The President can address joint sittings of the Parliament after the general election or at the commencement of the first session of each year.
- The President can nominate 12 members in the Rajya Sabha and 2 members of the Anglo-Indian Community in the Lok Sabha.
- These are the legislative powers of the President of India.

13.

- In 1719, the Sayyid brothers, with the help of Peshwa Balaji Vishwanath, dethroned Farrukhsiyar.
- Later, he was blinded and killed. It was the first time in the Mughal history that an emperor was killed by his nobles.

Mughal Ruler	Farrukhsiyar
Time Period	1713-1719
Other details	He followed a policy of religious tolerance by abolishing Jaziya and pilgrimage tax.

14.

15.

- **The Aufbau's Principle** states that the electrons in the ground state of an atom or ion fill in the orbitals from the lower energy level to higher energy level.
- **Pauli's Exclusion Principle** states that a maximum of two electrons can be accommodated in an orbital and they must have opposite spin.
- **According to the Hund's rule**, the pairing of electrons in orbitals (p, d, and f) take place after each subshell gets one electron each. Also, all singly occupied orbitals will have parallel spin.

16.

Let us check each option,

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- 1) $Q < O = S \leq P > R \rightarrow P > Q$
- 2) $Q < P = O \leq S > R \rightarrow P > Q$
- 3) $R < O = P \leq S > Q \rightarrow$ No relation between P and Q
- 4) $O < P = Q \leq R > S \rightarrow P = Q$

Hence, the arrangement $O < P = Q \leq R > S$ will make $P > Q$ definitely false.

17.

Logic: (1st column \times 2nd column + 1) \times 3rd column = 4th column

First row: $(2 \times 10 + 1) \times 7 \rightarrow 21 \times 7 = 147$

Second row: $(13 \times 3 + 1) \times 3 \rightarrow 40 \times 3 = 120$

Third row: $(5 \times 12 + 1) \times 1 \rightarrow 61 \times 1 = 61$

Same will be followed for fourth row,

$(9 \times 2 + 1) \times 9 \rightarrow 19 \times 9 = 171$

Hence, 171 is the missing number.

18.

CNSA is the Chinese National Space Agency,

ESA is the European Space Agency,

JAXA is the Japanese space agency,

CIA is Central Investigation Agency.

Thus among the four, CIA is the odd word.

19.

The given words are steps involved in converting cocoon to silk.

2. Harvesting cocoons

1. Thread extraction

4. Dyeing

3. Spinning

5. Weaving

6. Binding

Thus, 214356 is the answer.

20.

Here the number of lines in each image are prime numbers in ascending order.

Thus the next image will have 11 lines.

Hence answer is the image in option 3.

21.

The pattern followed here is,

$$9 + 2.5 = 11.5$$

$$11.5 + 4.5 = 16$$

$$16 + 7.5 = 23.5$$

$$23.5 + 11.5 = 35$$

Thus, clearly 25.5 is the wrong number as it must be 23.5.

22.

'A 4 B' means 'A is mother of B',

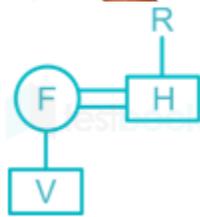
'A 6 B' means 'A is wife of B',

'A 8 B' means 'A is son of B',

'A 2 B' means 'A is father of B'

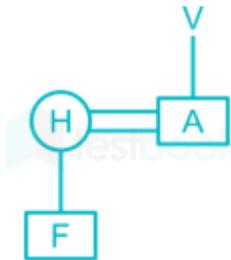
- 1) $F 4 V 8 H 8 R \rightarrow$ F is mother of V, V is son of H, H is son of R





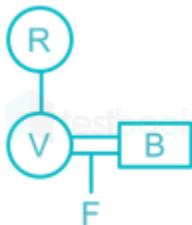
F is the father of V.

2) H 4 F 8 A 8 V → H is mother of F, F is son of A, A is son of V



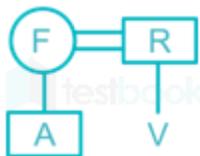
F's gender is not determined.

3) R 4 V 6 B 2 F → R is mother of V, V is wife of B, B is father of F



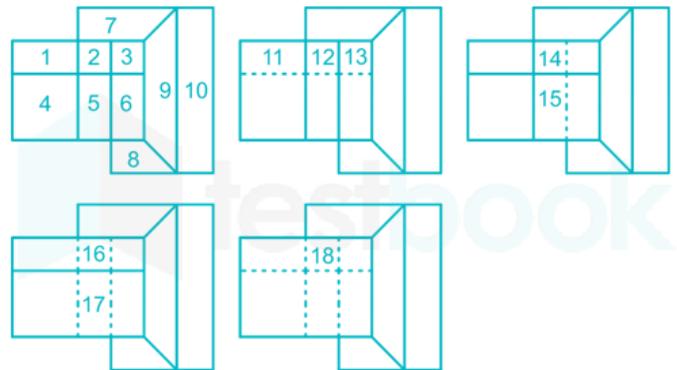
F is the grandson of V.

4) F 4 A 8 R 2 V → F is mother of A, A is son of R, R is father of V



F is a female.

23.



Hence, there are 18 quadrilaterals in the given figure.

24.

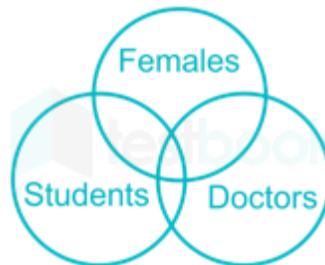
Here all the given images are divided into 4 equal parts except image in option 3 which is divided into 6 parts.

Thus image at option 3 is the odd one.

25.

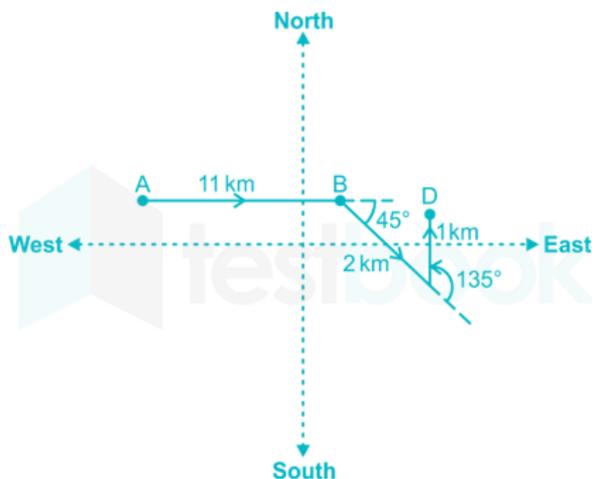
Some females can be students, some can be doctors and some can be both (have already become a Doctor and doing further specialization).

Thus the Venn diagram given below represents the set correctly.





26.



Thus, the point B is in the North-West direction with respect to point D.

27.

1) The first element is a letter which represents the second last letter of the word in capital form.

2) The second element is the number which represents the number of vowels in the word.

3) The third element is a letter which represents the first letter in the word in capital form.

better	late	than	never
E2B	T2L	A1T	E2N
barking	dogs	seldom	bite
N2B	G1D	O2S	T2B
fortune	favors	the	bold
N3F	R2F	H1T	L1B

Code for 'Better' is 'E2B',

Code for 'dogs' is 'G1D',

Thus, the solution is 'E2B G1D'.

28.

Here the sum of the number of sides of both the geometric shapes combined is in increasing order from 7.

The first image has 7 sides,

The second image has 8 sides,

The third image has 9 sides,

The fourth image has 10 sides,

Thus the next image will have 11 sides.

Hence the image in option 3 is correct.

29.

The logic followed here is,

$$27 : 108 \rightarrow 27 : (27 + 2 + 7) \times 3 = 108$$

Similarly,

$$25 : 96 \rightarrow 25 : (25 + 2 + 5) \times 3 = 96$$

Hence, 25 : 96 is the related number pair.

30.



Hence, the answer is option 1.



English

31.

A verb can be transitive or intransitive depending on whether it requires an object to express a complete thought or not.

A transitive verb is one that only makes sense if it exerts its action on an object.

Example: Please bring coffee.

In this sentence, 'bring' refers to the action of bringing the object (here, water)

An intransitive verb will make sense without one.

Example: The dog ran.

In this sentence, 'ran' does not have an object.

Hence, the correct option is 1.

32.

A verb can be transitive or intransitive depending on whether it requires an object to express a complete thought or not.

A transitive verb is one that only makes sense if it exerts its action on an object.

Example: Please bring coffee.

In this sentence, 'bring' refers to the action of bringing the object (here, coffee)

An intransitive verb will make sense without one.

Example: The dog ran.

In this sentence, 'ran' does not have an object.

Sometimes, single word expressions can also describe a complete action without an object. Hence, correct option is 1.

33.

Distributive adjectives are normally used with singular nouns. They include “each”, “every”, “either”, and “neither” and are used to refer to members of a group as individuals.

34.

Like the article *the*, demonstrative adjectives are used to show specific people, animals, or things. *These*, *those*, *this* and *that* are demonstrative adjectives.

35.

A positive adjective is used in order to describe. For example: “This is good soup” and “I am funny.”

A comparative adjective is used to compare two things (and is often followed by the word than). For example: “This soup is better than that salad” or “I am funnier than her.”

A **superlative adjective** is used to compare three or more things. For example: “This is the best soup in the



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whole world” or “I am the funniest out of all the other bloggers.”

36.

There is no error in the given sentence.

Since a future possibility is given, therefore the use of ‘might’ is correct. As the subject of the target is given, therefore ‘of’ is the correct preposition here. ‘and’ is the correct conjunction because similar things are joined together. Also, ‘by’ is the correct preposition in the last part of the sentence because the time-limit is mentioned.

Similarly the other rules of grammar are also taken care of in the sentence.

37.

Part C of the sentence contains error.

‘his’ should be replaced with ‘him’. ‘his’ is a ‘possessive form of pronoun’ and used to ‘indicate ownership’, while ‘him’ is an ‘**objective form of pronoun**’ which is used to ‘refer to a person already mentioned earlier’.

Let us take examples to understand better:

- Ravi is a nice guy. Everybody likes **him**.
- Shivam is a notorious child. **His** behavior annoys everyone.

Since, the victim student is being referred in this part, therefore ‘him’ must be used.

Correct sentence- ‘The victim student claims he was intercepted by four senior students, who allegedly assaulted him with sticks and blunt objects.’

38.

Glib means speaking in a confident manner without much sincerity or careful thought. This is generally referred to ‘smooth talking’ done to persuade or force someone into doing something, which he/she was otherwise not ready to do.

Looking at the options, *dull*, *hard* and *quiet* are nowhere close in meaning to the word Glib.

Artful means clever, skillful and cunning especially in getting what one wants. This best expresses the desired meaning.

Therefore, the correct answer is **option 2**.

Note – Let us understand the difference between Quite and Quiet.

Quiet means to make little or no noise. Quite means to a certain extent or degree.

Examples –

The kid spoke in a quiet voice.





It is quite cold outside. (means it is slightly cold outside)

39.

The meaning of the word *indissoluble* is incapable of being destroyed. Something which is indissoluble lasts for a very long time.

Let us look into the meaning of the given words:

Fundamental – the main or most important part or rule

Permanent – lasting for a long time

Detachment – the state of not being emotionally involved.

Inactive – doing nothing or not active.

We can clearly infer that the word *permanent* is closer in meaning to the word *indissoluble*.

Therefore, the correct answer is **option 2.**

40.

The idiom ‘Be glad to see the back of’ is used to convey that one is happy when someone (who is annoying) leaves.

Example: *I am glad to see the back of my wife – she was asking so many questions.*

Therefore, the correct answer is **option 3.**

41.

Crunch time refers to the critical period in which something difficult must be done.

Example: *We need to complete this assignment by tomorrow. So, it’s crunch time tonight.*

The end of a game, when the pressure to win the game is huge, is also crunch time which needs a suitable decision to be taken.

Therefore, the correct answer is **option 3.**

42.

The correct spelling is *falsification*. It means the act to make something false or incorrect in order to misrepresent something.

Example: *The employees were fired for their corrupt attitude and falsification of important records of the company.*

Therefore, the correct answer is **option 2.**

43.

The sentence is in **INDIRECT SPEECH** we need to convert it into **DIRECT SPEECH**.

The word ‘wondered’ suggests that an exclamation is made here.



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Option 1 is wrong because 'wow' shows excitement and joy. It does not go well with the context of the sentence.

Option 2 is wrong because 'ouch' shows sudden physical pain.

Option 3 is wrong because 'tense' is incorrect.

Option 4 is the correct answer.

44.

The sentence is in **INDIRECT SPEECH** we need to convert it into **DIRECT SPEECH**.

Tense of a sentence containing modals like 'should, could, would, might', etc. does not change in Direct/Indirect Speech. So tense of the first sentence will remain as such, whereas the second sentence will be converted into 'Present Continuous tense'.

Option 1 is wrong because 'then' is used. 'Now' changes to 'then' when the sentence is changed from Direct Speech to Indirect Speech, so the opposite must happen here.

Option 2 is wrong because 'were' is used instead of 'are'.

Option 3 is wrong because modal is changed from 'could' to 'would'.

Option 4 is the correct answer.

45.

The given sentence is in *Active Voice*, so we need to change it into *Passive Voice*.

The sentence contains **Past Continuous tense** in 'interrogative' form. Following structure must be used in the Passive Voice sentence:

Was + Object + being + V-3 + by + Subject + rest of the sentence

We can clearly see that option 1 follows the above given structure.

Hence, option 1 is the correct answer.

46.

The correct phrase is *discharge from the hospital*. It means to leave the hospital after treatment.

Complete sentence - *She was discharged **from** the hospital after treatment.*

Thus, the correct answer is **option 1**.

47.

It is mentioned in the passage '*Due to **globalization of economic activities** and increased scope of higher education, higher education has become a priority agenda for countries around the globe.*' Option 3 is thus the correct answer.





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48.

It is mentioned in the passage '*In order to increase opportunities of higher education, institutions of higher education must enhance their quality and access through open and distance learning while following national and international standards.*' Option 4 is the correct answer.

49.

It is mentioned in the passage '*These challenges are more significant for developing countries because of limited resources.*' Thus option 2 is the correct answer.

50.

It is mentioned in the passage '*The success of a country in our global knowledge-based economy is significantly dependent on a well-developed system of higher education that provides equal opportunities to every citizen. This system must promote quality learning and emphasize excellence in both teaching and research. Education can contribute significantly to economic development.*' Option 4 is the correct answer.

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