

## VARC

Q.1) Choose the most appropriate option to fill in the blanks of the given sentence.

Numerous criticisms of medical science \_\_\_\_\_ in recent years, with critics arguing that spurious diseases \_\_\_\_\_ for the aim of profit.

- a) are articulated, are invented
- b) are articulated, will have been invented
- c) have been articulated, are being invented
- d) have been articulated, will be invented

Q.2) Choose the most appropriate meaning of the underlined idiomatic expression in the given sentence.

In the mad rush for Western modernity and technological skills, both traditional communities and the urban middle class are busy throwing out the baby with the bathwater.

- a) Purging themselves of everything OR making a clean sweep
- b) Starting again with a clean slate
- c) Losing something useful while trying to discard the bad
- d) Throwing out something precious by accident

Q.3) Select the option that is related to the third word in the same way as the second word is related to the first word.

Trembling : Fear :: Frowning : ?

- a) Mood
- b) Joy
- c) Thought
- d) Displeasure

S.4-5) The given sentence has four underlined phrases. Choose the one that is Incorrect and the option that gives the grammatically correct phrase.

Q.4) The 11-hour mandatory rest period for workers in Germany is there to protect workers, originally to make sure factory workers could recover physically between shifts, but the break just necessary for mental regeneration.

- a) to ensuring
- b) within shifts
- c) is just as necessary
- d) is being there

Q.5) Mobile penetration is very high in India because a mobile phone will be allowing people to communicate instantly and orally, without the need to write messages or take someone's help to write messages; in such a scenario, the idea of information protection or privacy of data has little scope.

- a) allows people to
- b) gives little scope
- c) having the need to
- d) taking someone's help

Q.6) Choose the most appropriate words to fill in the blanks of the given sentence.

They said they were not going to \_\_\_\_\_ any gifts for their ceremony \_\_\_\_\_ for donations to charities.

- a) except, expect
- b) accept, except
- c) expect, except
- d) expect, accept

Q.7) Choose the option that best describes the meaning of the underlined word in the given sentence.

Ehrlich's argument that expanding human populations cannot be sustained on an Earth with finite carrying capacity is irrefutable and, indeed, almost tautological.

- a) Indisputable
- b) Irreconcilable
- c) Immaterial
- d) Arguable

Q.8) Choose the most appropriate option to fill in the blanks of the given sentence.

It's \_\_\_\_\_ I've always admired and envied, across the species spectrum in the animal kingdom: the natural \_\_\_\_\_ with which creatures move in their ordinary lives.

- a) ability, movement
- b) a quality, ease and grace
- c) a tendency, features
- d) a characteristic, emotions

Q.9) Three of the following sentences in the options form a coherent passage. Choose the option that contains the irrelevant sentence.

- a) Another feature is the extremely complex causal basis of many diseases, which hampers the effectiveness of interventions on those diseases.
- b) A prominent feature of medicine is the hope and expectation of patients that medicine can help them, coupled with the training of physicians to actively intervene.
- c) The pharmaceutical industry is extremely profitable, and the fantastic gains to be made from selling drugs create incentives to engage in some questionable practices.
- d) The history of science shows that major scientific revolutions typically occur without no thought of reward - think of Copernicus, Newton, Darwin and Einstein - breakthroughs in medicine are no different.

Q.10) Select the most appropriate ANTONYM of the underlined word in the given sentence.

From experience we know that the pulp from this plant disintegrates when wet.

- a) Falls apart
- b) Dissolves
- c) Flourishes
- d) Separates

Q.11) Select the most appropriate option to fill in the blanks.

Knowledge \_\_\_\_\_ animal behaviour and migration is much easier to pass on when woven \_\_\_\_\_ the narrative of a story brought to life \_\_\_\_\_ artistic representations.

- a) in, about, with
- b) of, across, with
- c) about, into, with
- d) on, with, in

S.12-13) Select the option that is related to the third word in the same way as the second word is related to the first word.

Q.12) Architect : Drawing board :: Painter : ?

- a) Paintbrush
- b) Water-colours
- c) Canvas
- d) Portrait

Q.13) Person : Crowd :: Musician : ?

- a) Melody
- b) Violin
- c) Orchestra
- d) Conductor

Q.14) Select the most appropriate option to fill in the blanks.

As the \_\_\_\_\_ of the school, she was \_\_\_\_\_ responsible for ensuring the students were guided by strict values and \_\_\_\_\_.

- a) principle, principal, principally
- b) principal, principle, principally
- c) principal, principally, principles
- d) principle, principally, principals

Q.15) Choose the most appropriate option to fill in the blanks of the given sentence.

\_\_\_\_\_ a few moments you will hear the whistling of the wild thrush who nests \_\_\_\_\_ the trees \_\_\_\_\_ our house.

- a) Within, among, near
- b) After, across, by
- c) Under, within, by
- d) Since, in, beyond

Q.16) The given sentence has four underlined phrases. Choose the one that is INCORRECT and the option that gives the grammatically correct phrase.

Mumbai has a far larger population than Naples, but both cities are places of striking contrasts, of prosperous neighbourhoods narrowly separated entangled by crowded slums and narrow streets.

- a) by a tangle of
- b) being places with
- c) having prosperous neighbourhoods
- d) has much larger

Q.17) Select the most appropriate ANTONYM of the underlined word in the given sentence.  
Relentless advertising campaigns are telling Indian parents that coding is critical because making children code will develop their cognitive skills.

- a) Intermittent
- b) Prolific
- c) Widespread
- d) Expensive

Q.18) Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. Publishing executives have long described their business as recession-proof; books, after all are relatively cheap compared to other things.

B. While the restrictions of the pandemic have affected business, it is true that a person can watch only so much Netflix, and there aren't a lot of other options.

C. It is not surprising then that bookstores are performing well; business got a boost when, early in the pandemic, Amazon deprioritised books to focus on medical supplies and household staples.

D. This is because the market for books remained stable after the 2008 recession. However, the challenges in 2020 have been more extreme, with social distancing restrictions at warehouses, vast lockdowns and a rapid economic meltdown.

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

Q.19) Choose the most appropriate option to fill in the blank of the given sentence.

I \_\_\_\_\_ at least 500 books by the end of the year.

- a) was reading
- b) am reading
- c) will have read
- d) will have been reading

Q.20) Choose the most appropriate option to fill in the blank of the given sentence.

The operator asked the caller to \_\_\_\_\_ while he transferred the call to the right department.

- a) hold to
- b) hold fast
- c) hold up
- d) hold on

Q.21) Choose the most appropriate meaning of the underlined idiomatic expression in the given sentence.

She wanted to submit her artwork in time for the competition but she missed the boat as she had other commitments.

- a) Was not serious enough about it
- b) Sent in sub-standard work
- c) Was too late to meet the deadline

d) Was focused on other tasks

Q.22) Select the most appropriate option to fill in the blanks.

While working at the Human Resources Department, Mina was very \_\_\_\_\_ of not appearing to be \_\_\_\_\_ enough to her colleagues and the management.

- a) conscience, conscientious
- b) conscience, conscious
- c) conscientious, conscience
- d) conscious, conscientious

Q.23) Choose the most appropriate ANTONYM of the underlined word in the given sentence.

This village presents one of many successes of the country's pledge to eradicate abject rural poverty by the end of 2020.

- a) Banish
- b) Aggravate
- c) Diminish
- d) Promote

Q.24) Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. A recent legislation has ensured that the antiquities trade will be subject to greater oversight, which empowers federal regulators to design measures that would remove secrecy from transactions.

B. Regulators have long worried that the opacity of the antiquities trade, where buyers and sellers are seldom identified, made it an easy way to shroud illicit transfers of money.

C. The law also seeks to end the use of shell companies to conceal the identities of buyers and sellers.

D. Legal experts expect that the new antiquities regulations will flag certain transactions to the authorities, who then determine whether they are suspicious.

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

Q.25) Choose the option that best describes the meaning of the underlined word in the given sentence.

Travel writing is epistolary in nature: it uses the voyage and the destination as referents to communicate our own evolution of thought.

- a) In the form of letters
- b) An open communication
- c) A chronological description
- d) A personal description

Q.26) Four options have been given out of which three are alike in some manner and one is different. Select the one that is different.

- a) Between

- b) Among
- c) And
- d) Of

Q.27) Choose the most appropriate meaning of the underlined idiomatic expression in the given sentence.

It is difficult to pick new books in a year where there is an embarrassment of riches; one is hampered by the fact that some of the best ones are written by close friends and colleagues.

- a) A dearth of good things
- b) Overabundance of supply
- c) Too many known authors
- d) Not much to choose from

Q.28) Choose the option that will complete the following paragraph.

Numerous criticisms of medical science have been articulated in recent years. Some critics argue that spurious disease categories are being invented for the aim of profit. Others say that the benefits of most new drugs are minimal and exaggerated by clinical research, and that the harms of these drugs are extensive and typically underestimated by clinical research.

- a) Another prominent feature of medicine is the hope and expectation of patients that medicine coupled with training of physicians can help them in their treatment.
- b) The pharmaceutical industry is extremely profitable, and the fantastic financial gains to be made from selling drugs create incentives to engage in some of the practices above.
- c) Afflicted by studies with small sample sizes, tiny effects, invalid exploratory analyses and flagrant conflicts of interest, science has taken a turn towards darkness.
- d) Still others point to problems with the research methods themselves, arguing that randomised trials and meta-analyses are in fact malleable.

Q.29) Choose the most appropriate option to fill in the blanks of the given sentence.

It was quiet and peaceful during the monsoon months, when everything \_\_\_\_\_ in emerald green, and \_\_\_\_\_ to meet old friends, in uncrowded spaces.

- a) was stained, there was time
- b) having been stained, with time
- c) will be stained, there was time
- d) was stained, there was the time

Q.30) Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. The program has been criticised for assisting people classified as extremely poor at some point from 2014 to 2016, without adding others who may have fallen on hard times since then.

B. In just five years, China says it has lifted from extreme poverty over 50 million farmers left behind by rapid economic growth

in cities.

C. It does very little too for the urban poor people where wages may be higher but workers must pay far more for food and rent.

D. Local government officials identified impoverished households, handed out loans, grants and even farm animals to poor villagers.

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

Q.31) Three of the following sentences in the options form a coherent passage. Choose the option that contains the irrelevant sentence.

a) But we must equally take into consideration a need to support the people who have a hand in keeping their culture alive and thriving.

b) In 2017, the semi-autonomous region of Catalonia had voted for independence led to the Spanish government dissolving the Catalanian parliament and ordering immediate regional elections.

c) Apart from denouncing the physical destruction of sites, we should also spotlight the threat heritage decimation has on people and their cultural livelihoods.

d) Many heritage sites are not inert buildings but are also living and breathing entities - a vital part of the daily lives of those that live around them.

Q.32) Four options have been given out of which three are alike in some manner and one is different. Select the one that is different.

- a) Hear
- b) Touch
- c) Mouth
- d) Smell

Q.33) In the following question four options have been given out of which three are alike in some manner and one is different. Select the one that is different.

- a) Spoon
- b) Fork
- c) Shears
- d) Knife

Q.34) Choose the option that best describes the meaning of the underlined word in the given sentence.

Several inscriptions are etched into the facade of the ancient buildings, and warn of fines for trespassing or attempting to surreptitiously occupy the tomb as your own.

- a) Flagrantly
- b) Aggressively
- c) Secretly
- d) Criminally

Q.35) Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. Researchers say that having a priority access line allows people to choose what resource they want to use to get to the front - time or money.

B. Not everyone is enthused about the rise of 'priority queuing' or 'fast-tracking', which sometimes involves paying an additional fee to jump the main queue.

C. For many people, time is more precious than money, so being able to hand over money in order to save time is a boon.

D. Despite this the concept is spreading worldwide, as queues can effectively be skipped everywhere from airport security to music festivals, with 'VIP' passes.

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

S.36-40) The passage below is accompanied by a set of questions. Choose the best answer to each question.

Every label has its problems — and, as it turns out, an interesting back story. Here's what I learned from talking to many, many experts.

More than half a century ago, the Cold War was just starting. It was Western capitalism versus Soviet socialism. But there was another group of countries. Many of them were former colonies. None of them were squarely in either the Western or the Soviet camp. Thinking of

these three factions, French demographer Alfred Sauvy wrote of "Three Worlds, One Planet" in an article published in 'L'Observateur' in

1952. The First World consisted of the US, Western Europe and their allies. The Second World was the so-called Communist Bloc: the

Soviet Union, China, Cuba and friends. The remaining nations, which aligned with neither group, were assigned to the Third World.

The Third World has always had blurred lines. "Although the phrase was widely used, it was never clear whether it was a clear category

of analysis, or simply a convenient and rather vague label for an imprecise collection of states in the second half of the 20th century and

some of the common problems that they faced," writes historian BR Tomlinson in his essay titled 'What was the Third World?', published

in 2003 in the 'Journal of Contemporary History'.

Because many countries in the Third World were impoverished, the term came to be used to refer to the poor world. "This 1-2-3

classification is now out-of-date, insulting and confusing." Who is to say which part of the world is "first"? And how can an affluent

country like Saudi Arabia, neither Western nor communist, be part of the Third World? Plus, the Soviet Union doesn't even exist anymore.

And it's not like the First World is the best world in every way. It has pockets of deep urban and rural poverty, says Paul Farmer, co-



founder of the nonprofit Partners in Health and a professor at Harvard Medical School. "That's the Fourth World," Farmer says, referring to parts of the United States and other wealthy nations where health problems loom large. 'Developing countries' sounds like it might be a better choice. On the surface, it seems accurate. We're writing about countries that need to develop better health care systems, better schools, better ways to bring water and electricity to people. (However)... when you think about it, 'developing countries' are quite developed in some respects. In countries where government safety nets are practically nonexistent, people step forward to help out, says Mead Over, who studies the economics of health interventions at the Center for Global Development. Maybe the solution is to come up with a classification that is based on data. That's how the World Health Organization categorises countries. It uses the term "low-and lower-middle-income countries" or LMIC for short. The LMIC category is based on World Bank statistics that divide countries based on gross domestic product: There are low income, lower middle income, middle income and high income.

Q.36) The central theme of the passage is the need:

- a) to change nomenclature to more accurately reflect current times
- b) for advanced countries to reflect on their history vis-à-vis former colonies
- c) to challenge the patronising stance of developed nations
- d) to narrow the gap between the 'First' and 'Third' world

Q.37) We can infer from the passage that the author believes that the 1-2-3 system of classification can be termed as:

- a) too generalised
- b) imprecise
- c) patronising
- d) exhaustive

Q.38) The passage suggests that the term 'developing' countries:

- a) can also apply to western countries, given their inadequate health systems
- b) can be an objective, verifiable way of classifying nations
- c) is deceptive, as these countries have strong compensatory social networks
- d) is being challenged as it has been coined by western agencies

Q.39) Which of the following is NOT one of the reasons cited in the passage for the 1-2-3 classification to be outdated now?

- a) Some First World countries have poorly developed regions and social networks.
- b) Many First World countries are not situated in the West.
- c) Some very wealthy countries are not included in the First World category.
- d) The Second World no longer exists as a bloc of countries.

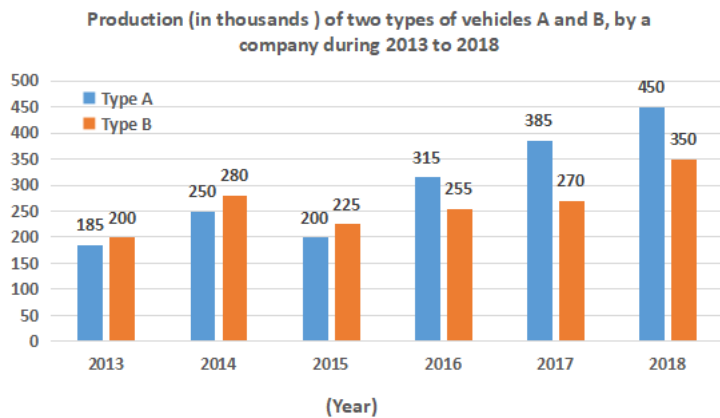
Q.40) Which of the following views would the author NOT agree with?

- a) The term 'Third World' has become synonymous with poor underdeveloped countries.
- b) The terms 'developed' and 'developing' no longer reflect today's reality
- c) With the Soviet Union's disbanding, the 'Second World' needs to be reclassified.
- d) The term 'Third World' has a negative hierarchical connotation.

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S.41-45) Study the graph and answer the given questions:

Production (in thousands) of two types of vehicles A and B, by a company during 2013 to 2018



Q.41) The total number of vehicles of type B produced in 2013, 2014 and 2017 is x% of the total number of vehicles of type A produced in 2014, 2015 and 2018. The value of x is closest to:

- a) 83.3
- b) 80
- c) 72.2
- d) 84

Q.42) The average number of vehicles of type B produced in 2015, 2016 and 2017 is approximately what per cent less than the number of vehicles of type A produced in 2017?

- a) 20.6
- b) 54
- c) 35.1
- d) 26

Q.43) 90% of the total number of vehicles of type A produced in 2013, 2015 and 2016 is equal to the total number of vehicles of type B produced in the years \_\_\_\_\_.

- a) 2014 and 2017
- b) 2015 and 2018
- c) 2015 and 2017
- d) 2014 and 2018

Q.44) The ratio of the total number of vehicles of type A produced in 2016 and 2017 to the total number of vehicles of type B produced in 2014 and 2018, is:

- a) 11 : 8
- b) 11 : 9
- c) 9 : 8
- d) 10 : 9

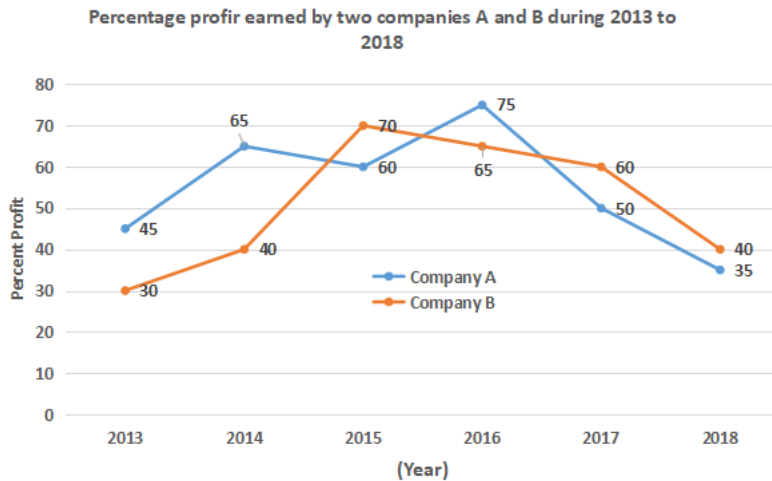
Q.45) In 2019, if the production of vehicles of type A increased by the same per cent as in 2016 over its previous year, then what was the number (in thousands) of vehicles of type A produced in 2019?

- a) 708.75

- b) 693.75
- c) 731.25
- d) 686.25

**S.46-50)** Study the graph and answer the given questions:

Percentage profit earned by two companies A and B during 2013 to 2018



Q.46) If the incomes of companies A and B in 2013 were in the ratio 3 : 4, then the expenditure of company A was what per cent less than that of company B in that year (correct to one decimal place)?

- a) 32.8%
- b) 48.7%
- c) 31.4%
- d) 45.6%

Q.47) If the expenditure of company A in 2016 was ₹65 crores, then what was the income (in ₹ crores) of the company in the same year?

- a) 113.7
- b) 110.5
- c) 115.3
- d) 120.25

Q.48) If the profit earned by the company A in 2014 was ₹59.28 crores, then what was the income (in ₹ crores) of the company in the same year?

- a) 150.48
- b) 140.64
- c) 156.2
- d) 91.2

Q.49) If the income of company B in 2015 was ₹108.8 crores, then what was its expenditure (in ₹ crores) in the same year?

- a) 54.4
- b) 70.5
- c) 64
- d) 68

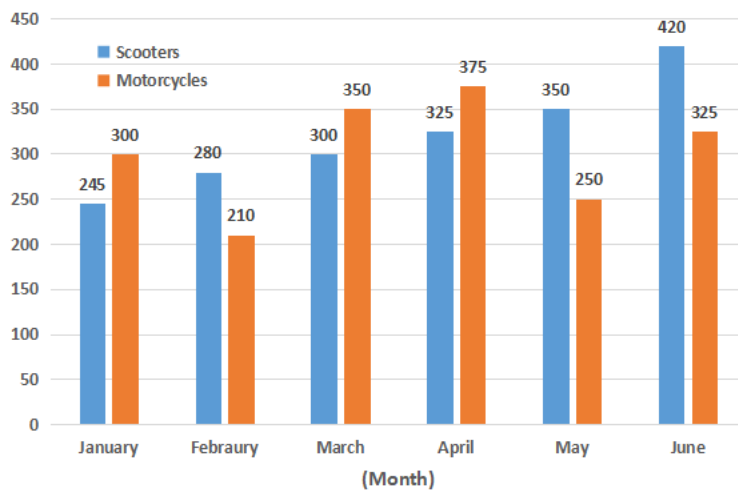
Q.50) If the expenditure of both companies A and B in 2018 was the same, then what was the ratio of the income of A to the income of B in the same year?

- a) 27 : 28
- b) 7 : 8
- c) 7 : 10
- d) 25 : 28

**S.51-55)** Study the graph and answer the given questions:

Number of Scooters and Motorcycles sold by a dealer during the first six months of the year 2020

Number of Scooters and Motorcycles sold by a dealer during the first six months of the year 2020



Q.51) The average number of scooters sold by the dealer in January, March and April exceeds the average number of motorcycles sold in February and May by:

- a) 70
- b) 65
- c) 55
- d) 60

Q.52) The total number of motorcycles sold by the dealer in January, March and May is what percentage more than the total number of scooters sold in January, March and June (correct to one decimal place)?

- a) 6.2%
- b) 6.7%
- c) 7.2%
- d) 5.7%

Q.53) In which of the following months was the percentage increase in the sale of scooters as compared to its previous month below 7.5%?

- a) May
- b) February
- c) March
- d) April

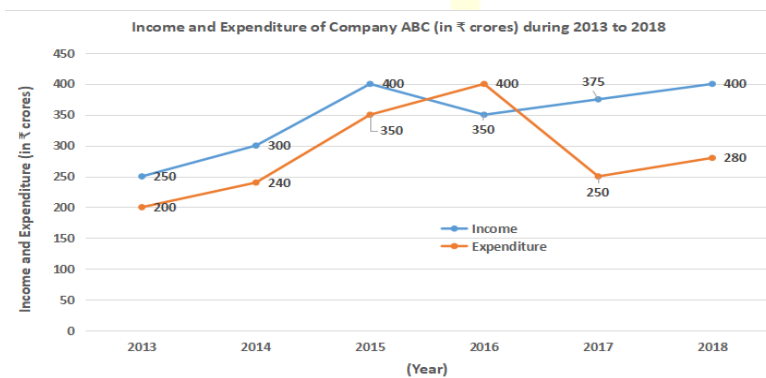
Q.54) What is the ratio of the total number of scooters sold by the dealer in February and May to the total number of motorcycles sold in April and June?

- a) 8 : 15
- b) 4 : 5
- c) 4 : 3
- d) 9 : 10

Q.55) In July 2020, the sale of scooters increased by the same percentage in June 2020 over the preceding month. What was the number of scooters sold in July 2020?

- a) 462
- b) 504
- c) 525
- d) 546

**S.56-60)** Study the graph and answer the given questions:  
Income and Expenditure of company ABC (in ₹ crores) during 2013 to 2018



Q.56) What is the ratio of the total income of the company in 2016 and 2018 to the total expenditure in 2013 and 2015?

- a) 7 : 9
- b) 7 : 6
- c) 15 : 11
- d) 5 : 6

Q.57) In 2019, if the expenditure of the company increased by the same percentage as in 2018 over its preceding year, then what was its expenditure (in ₹ crores) in 2019?

- a) 336
- b) 309.9
- c) 313.6
- d) 308

Q.58) In which of the following years was the percentage increase in the income of the company below 7%?

- a) 2016
- b) 2014
- c) 2018
- d) 2015

Q.59) If the ratio of expenditures of the company in 2015 and 2019 was 7 : 9 and the company earned a profit of 20% in 2019, then what was its income (in ₹ crores) in 2019?

- a) 475
- b) 500
- c) 540
- d) 480

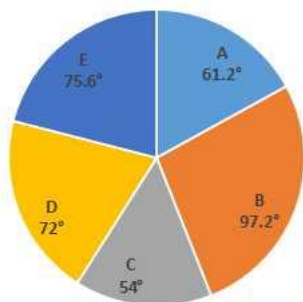
Q.60) What is the average profit (in ₹ crores) earned by the company in 2013, 2014, 2015 and 2017?

- a) 72.75
- b) 66.25
- c) 68.75
- d) 71.25

S.61-65) Study the table and graph and answer the given questions:

Areas	Ratio of Students	
	Male	Female
A	9	8
B	13	14
C	7	8
D	7	3
E	10	11

Break up (degree wise) of students in terms of specialization in different area (A, B, C, D & E) in an MBA Program



Total number of Students = 2400

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Q.61) The number of students specialising in E is what per cent more than the number of students specialising in C?

- a) 28.6%
- b) 40%
- c) 33.3%
- d) 43%

Q.62) The ratio of total number of male students specialising in B and C to the total number of female students specialising in A, D and E is:

- a) 11 : 10
- b) 4 : 5
- c) 24 : 25
- d) 3 : 5

Q.63) The total number of students specialising in A and B exceeds the total number of students specialising in D and E by 'x'. The

value of 'x' lies between:

- a) 75 and 80
- b) 70 and 75
- c) 65 and 70
- d) 60 and 65

Q.64) The total number of female students specialising in B and C is what per cent of the total number of students specialising in C and D (correct to one decimal place)?

- a) 62.2%
- b) 60.5%
- c) 62.9%
- d) 61.7%

Q.65) The number of female students specialising in D is approximately what per cent less than the number of female students specialising in E?

- a) 45.5%
- b) 41.7%
- c) 83.3%
- d) 42.2%

**S.66-70)** Study the table and answer the given questions:

Data related to the employees of a multinational company ABC in six offices A, B, C, D, E and F

Office	Total Number of employees	Ratio of male to female employees	Percentage of Post graduate employees
A	1680	4:3	75
B	2160	7:5	65
C	2760	12:11	70
D	2340	6:7	55
E	2520	5:9	60
F	2240	13:15	45

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Q.66) What is the ratio of the total number of male employees in offices A and D to the total number of female employees in offices B and E?

- a) 16 : 27
- b) 2 : 3
- c) 17 : 21
- d) 5 : 6

Q.67) The average number of female employees in offices D, E and F exceeds the number of male employees in office B by \_\_\_\_\_.

- a) 140
- b) 90
- c) 100
- d) 120

Q.68) If the number of male post graduate employees in office C is 832, then what per cent of the female employees in that office are post graduates (correct to one decimal place)?

- a) 75.8%

- b) 80.2%
- c) 84.6%
- d) 83.3%

Q.69) The average number of post graduate employees in offices B, D and E is approximately what per cent of the total number of female employees in offices A, C and F?

- a) 45.6%
- b) 46.2%
- c) 43.2%
- d) 45.9%

Q.70) In which office is the percentage of female employees, with respect to the total number of employees in that office, between 45% and 50%?

- a) B
- b) D
- c) F
- d) C

**S.71-75)** Study the table and answer the given questions:

Number of students enrolled for Vocational Courses (VC) in institutes A, B, C, D and E during 2014 to 2019

Year →	2014	2015	2016	2017	2018	2019
Institute ↓						
A	217	216	220	232	250	256
B	222	227	228	255	253	292
C	245	280	248	245	257	280
D	232	242	258	263	234	310
E	249	251	246	285	230	252



Q.71) The ratio of the total number of students enrolled in VC in institutes B, D and E in 2015 to the total number of students enrolled in institute C in 2016, 2017 and 2018 is:

- a) 24 : 25
- b) 35 : 38
- c) 14 : 15
- d) 36 : 37

Q.72) The total number of students enrolled in VC in institutes B and D in 2014 and 2016 is what per cent of the total number of students enrolled in 2019 in all the five institutes (correct to one decimal place)?

- a) 64.4%
- b) 59.2%
- c) 67.6%
- d) 60.8%

Q.73) The total number of students enrolled in VC in institutes B and E in 2017 is what per cent more than the total number of students enrolled in institute D in 2015 and 2016?



- a) 7.4%
- b) 9%
- c) 8.5%
- d) 8%

Q.74) 35% of the total number of students enrolled in VC in institutes A, B and E in 2019 is 12% more than the number of students enrolled in 2018 in institute \_\_\_\_\_.

- a) E
- b) B
- c) C
- d) A

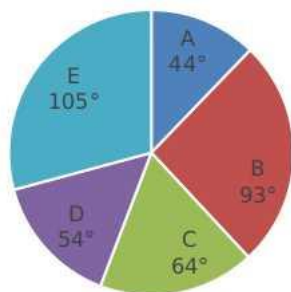
Q.75) The average number of students enrolled in VC in institute E in 2014, 2016 and 2017 is equal to the average number of students enrolled in institute B in the years \_\_\_\_\_.

- a) 2016 and 2017
- b) 2014 and 2017
- c) 2016 and 2019
- d) 2015 and 2018

**S.76-78)** Study the table and graph answer the given questions:

School	A	B	C	D	E
Number of boys	220	830	440	450	1017

Distribution (degree wise) of students in five schools A, B, C, D and E



Total number of students (boys and girls) in 5 schools = 5400

Q.76) 40% of the number of students in school B is equal to the number of girls in school \_\_\_\_\_.

- a) A
- b) C
- c) E
- d) D

Q.77) What is the ratio of the total number of boys in schools B and D to the total number of girls in schools A and C?

- a) 11 : 21
- b) 4 : 3
- c) 3 : 4
- d) 21 : 13

Q.78) The average number of girls in schools D and E is approximately what per cent less than the number of students in school C?

- a) 51.6%
- b) 52.2%
- c) 50.4%
- d) 54.5%

S.79-80) Study the table answer the given questions:

Percentage of marks obtained by six students A, B, C, D, E and F in Different subjects.

Subjects → Students ↓	English (out of 50)	Math (out of 150)	Science (out of 80)	Hindi (out of 75)	Social Studies (out of 100)
A	66	80	85	60	60
B	54	64	55	88	50
C	62	70	75	68	72
D	70	90	70	70	85
E	72	84	65	64	88
F	84	92	90	84	73

Q.79) The total marks obtained by student B in Mathematics and Hindi is approximately what percentage of the total marks obtained by student E in English, Science, Hindi and Social Studies?

- a) 72.3%
- b) 73.4%
- c) 70.6%
- d) 69.8%

Q.80) The average marks obtained by students A, C and D in Mathematics is what per cent less than the total marks obtained by student F in all the five subjects (correct to one decimal place)?

- a) 68.8%
- b) 69.9%
- c) 69.1%
- d) 70.2%

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### QUANTS

Q.81) If the speed of a boat in still water is  $a$  km/h and the speed of the water current is  $b$  km/h, then find the value of  $a$ . It is given that the boat covers  $3x$  km against the current in  $0.5x$  hours and  $2.4x$  km with the current in  $0.3x$  hours, where  $x$  is a positive irrational quantity.

- a) 200
- b) 53
- c) 50
- d) 68

Q.82) When two different dice are rolled together, what is the probability that the sum of the numbers coming up on the two dice is 9?

- a)  $\frac{1}{12}$
- b)  $\frac{1}{9}$
- c)  $\frac{1}{6}$

d)  $1/8$

Q.83) The roots of the quadratic equation are:

- a) Rational and unequal
- b) Irrational
- c) Real and equal
- d) Imaginary

Q.84) Which of the following is a function from  $A \rightarrow B$ , where  $A = \{1, 2, 3\}$  and  $B = \{2, 3, 4, 5\}$ ?

- a)  $\{(1, 1), (2, 2), (3, 3)\}$
- b)  $\{(1, 2), (2, 4), (3, 5)\}$
- c)  $\{(1, 2), (3, 4), (4, 5)\}$
- d)  $\{(1, 1), (2, 3), (3, 4)\}$

Q.85) Vessels A and B contain mixtures of milk and water. The ratios of milk and water in A and B are 4 : 5 and 3 : 1, respectively. In what ratio should the contents of A and B be drawn and mixed, to obtain a mixture having milk and water in the ratio 3 : 2?

- a) 27 : 28
- b) 35 : 36
- c) 24 : 23
- d) 11 : 12

Q.86) Find the value of the expression where  $n$  cm is the length of one diagonal of a quadrilateral whose opposite sides are parallel. The adjacent sides of the quadrilateral are 3 cm and 4 cm in length and the other diagonal is 1 cm in length.

- a) 3648
- b) 196
- c) 256
- d) 800

Q.87) Find the value of  $\sqrt{16 + 2\sqrt{55}}$

- a)  $\sqrt{11} + \sqrt{5}$
- b)  $\sqrt{10} + \sqrt{5} + 5$
- c)  $1 + \sqrt{10}$
- d)  $2 + \sqrt{10} + \sqrt{5}$

Q.88) The centres of three circles that touch each other externally form a triangle of sides 21 cm, 22 cm and 23 cm. Find the approximate area of the smallest circle?

- a) 120
- b) 314
- c) 111
- d) 139

Q.89) If the second, third and first terms of a geometric progression (GP) form an arithmetic progression (AP), then find the first term

of the GP, given that the sum to infinite terms of the GP is 36

- a) 9
- b) 54
- c) 27
- d) 18

Q.90) The common root of  $x^2 + 10x + 24 = 0$  and  $x^2 + 14x + 48 = 0$  is:

- a) -2
- b) 2
- c) 6
- d) -6

Q.91) The function  $y = \cos x$  is:

- a) an even function
- b) an odd even function
- c) an odd function
- d) None of the given function

Q.92) A rhombus has a perimeter of 40 cm. The line joining the midpoints of two adjacent sides is 6 cm long. Find the area of the rhombus.

- a) 372  $cm^2$
- b) 96  $cm^2$
- c) 48  $cm^2$
- d) 84  $cm^2$

Q.93) The distance between two points A and B is 84 km. Two persons start at the same time, one travelling from A towards B and the other travelling from B towards A. If their respective speeds are 36 km/h and 27 km/h and they meet at point C between A and B, then find the value of  $(CA/(CA - CB))$ .

- a) -3
- b) -4
- c) 3
- d) 4

Q.94) An unknown sum when compounded annually yields extra interest that is equal to 240! times of the unknown sum compared to simple interest. If the unknown sum, rate of interest  $r\%$  and time 2 years is same for compound and simple interest, then find the value of the expression  $\sqrt{50+(r+1)}$

- a) 35
- b) 100
- c) 75
- d) 50

Q.95) In an equilateral triangle, the orthocentre divides each median in the ratio  $x : y$ . If  $x > y$ , then find  $x : y$ .

- a) 2 : 1
- b) 1 : 2
- c) 4 : 1

d) 3 : 1

96. Let  $m$  and  $n$  be two numbers such that their LCM is 196 and their HCF is 7. If the difference between the two numbers is 21. then

find the value of  $\sqrt{\frac{m \cdot n}{7}}$

- a) 21
- b) 28
- c) 7
- d) 14

Q.97) The number of non-negative integral solutions to the equation  $x + y + z = 14$  is:

- a) 120
- b) 45
- c) 78
- d) 110

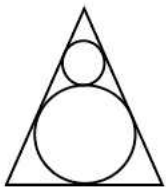
Q.98) A person had two plots of land. In each plot, he cultivated maize and barley. The ratio of the area under maize cultivation to that under barley cultivation in the larger plot is 8 : 9. The ratio of the total areas under maize cultivation and barley cultivation in the two plots together is 29 : 33. The ratio of the areas under maize cultivation and barley cultivation in the smaller plot is 13 : 15.

The ratio of the area under maize cultivation in the larger plot to that under barley cultivation in the smaller plot is:

- a) 8 : 15
- b) 16 : 15
- c) 15 : 8
- d) 15 : 16

Q.99) Figure description: An equilateral triangle encloses the two circles touching each other externally. Two sides act as common tangent to both the circles, whereas the third side is tangent to the larger circle only.

What will be the ratio of the perimeter of the smaller circle to that of the equilateral triangle in the given figure?



- a)  $\pi : 12\sqrt{3}$
- b)  $\pi : 18\sqrt{3}$
- c)  $\pi : 9\sqrt{3}$
- d)  $\pi : 6\sqrt{3}$

Q.100) Two articles are bought at the same price. One is sold at 30% profit and the other is sold at 20% loss. Find the overall profit/loss percentage.

- a) 10% profit
- b) 5% loss
- c) 10% loss
- d) 5% profit

Q.101) If the value of 624 in the base 7 system is equal to 312 in the base k system, then find the value of

- a) 400
- b) 441
- c) 900
- d) 100

Q.102) If  $f(x)=8x^4$  and  $g(x)=\sqrt[3]{f(x)}$  then find the value of  $\log_2(\text{fog}(64))$

- a) 39
- b) 28
- c) 32
- d) 15

Q.103) Find the value expression  $(750 (x^2+y^2/ xy))$ , where ₹x is the amount when a sum of ₹y is lent at an unknown interest rate for an unknown period compounded quarterly. Also ₹y is the amount when a sum of ₹9x is lent under similar condition as above.

- a) 2000
- b) 2200
- c) 2500
- d) 3000

Q.104) Find the 12th term of the progression  $S_n$ , where  $S_n=1 + 3 + 7 + 13 + 21 + 31 + 43\dots$

- a) 150
- b) 144
- c) 169
- d) 133

Q.105) How much should be paid to Changez when work is completed combinedly by Akbar, Babar and Changez in 2 days, and the total amount paid to the team is 100 Dinars? It is known that Akbar alone can do the work in 10 days, whereas Babar takes 5 days for the completion of the same work.

- a) 20 dinars
- b) 60 dinars
- c) 30 dinars
- d) 40 dinars

Q.106) If a person would have walked at 12 km/h instead of 10 km/h, he would have walked 20 km more. The actual distance travelled by him when he walked at the pace of 10 km/h is

- a) 100 km
- b) 80 km
- c) 150 km
- d) 125 km

Q.107) Ram and Shyaam together complete a task in 45 days and receive ₹13,500. If Shyaam is three times as efficient as Ram, then what is the amount of money he earns in 10 days?

- a) ₹2,750
- b) ₹2,250
- c) ₹2,500
- d) ₹2,000

Q.108) Let  $n$  be the total count of the 5-digit numbers in the binary system. What is the value of  $2n$ ?

- a) 16
- b) 64
- c) 32
- d) 4

Q.109) Find the value of expression.

- a) 8
- b) 64
- c) 4
- d) 2

Q.110)  $x$  is directly proportional to 4 more than the square of  $y$ .  $x$  is 39 when  $y$  is 3. What is the value of  $x$  when  $y$  is 60?

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

Q.111) Find  $x$  if  $\frac{x}{\sqrt{128}} = \frac{\sqrt{162}}{x}$

- a) 18
- b) 16
- c) 12
- d) 14

Q.112) The solution set of the inequality is:  $-9y - 5 < 7y + 27$

- a)  $(-2, \infty)$
- b)  $(-\infty, -2)$
- c)  $(2, \infty)$
- d)  $(-\infty, 2)$

Q.113) The number of ways of arranging 10 different books on a shelf such that two particular books are always together is:

- a)  $9!2!$
- b)  $8!$
- c)  $9!$
- d)  $10!$

Q.114) What must be added to 315654 so that it becomes a multiple of 11?

- a) 3
- b) 2
- c) 1

d) 4

Q.115) Gandhi Sew bridge has a pole that divides the bridge into two parts in a manner such that the ratio of the larger part to the smaller part is  $m : n$ . It is found that the ratio of the length of the bridge to the length of the smaller part is six times the ratio of the length of the larger part to the length of the bridge. Find the value of  $25 + mn(m^2 - 4mn + n^2)$ .

- a) 17
- b) 10
- c) 26
- d) 5

Q.116) Consider a trapezium PQRS in which  $PQ \parallel RS$ . Point E internally divides RS in equal parts and PQRE forms a parallelogram. The area of triangle PSE is  $37 \text{ cm}^2$ . Find the area enclosed by the shape PQRS.

- a)  $125 \text{ cm}^2$
- b)  $111 \text{ cm}^2$
- c)  $175 \text{ cm}^2$
- d)  $100 \text{ cm}^2$

Q.117) What is the equation of a straight line that has y-intercept 5 and is perpendicular to a straight line joining (2, -3) and (4, 2)?

- a)  $2y = -5x + 5$
- b)  $2y = 5x - 5$
- c)  $y = 5x - 5$
- d)  $2y = -0.4x + 5$

Q.118) Two non-intersecting circles, one lying inside the other, are of radii  $r_1$ , and  $r_2$ , and  $r_1 > r_2$ . If the minimum distance between any two points on their circumferences is  $s$ , then the distance between their centres is:

- a)  $r_1 - r_2 - s$
- b)  $r_1 + r_2 + s$
- c)  $r_1 + r_2 - s$
- d)  $r_1 - r_2 + s$

Q.119) Tom, Suresh and Adil are capable of finishing a task in 2, 4 and 8 hours, respectively. Suresh takes a magic medicine that increases his power by  $n$  times. Suresh works together with Tom and Adil to complete the task in less than 1 hour. Find the value of the expression  $n^2 + 2$  where  $n$  is a positive integer.

- a) 14
- b) 12
- c) 10
- d) 6

Q.120) Find  $x$  if  $\log_x [\log_5(x + 5 + x)] = 0$

- a) 1
- b) 0
- c) 4
- d) 5



**Reasoning and logical ability**

Q.121) P, Q and R gave the following statements:

P - "Either it is day or it is night".

Q - "It is night".

R - "It is neither day nor night".

Of these people, only one is wrong.

What time of the day is it?

- a) Day
- b) Data is inadequate
- c) Neither day nor night
- d) Night

Q.122) Read the given statements and conclusions carefully, and decide which of the conclusions logically follow(s) from the statements.

Statements:

Only creative and innovative people score high on a creativity test.

Rahul scored high on the creativity test.

Conclusions:

I. Rahul is creative.

II. Rahul is innovative.

- a) Neither conclusion I nor II follows.
- b) Both conclusions I and II follow.
- c) Only conclusion I follows.
- d) Only conclusion II follows

Q.123) Select the number from among the given options that can replace the question mark (?) in the following series.

123, 468, 91011, 121416, 171819, ?

- a) 202122
- b) 202224
- c) 202326
- d) 212325

Q.124) If

'P + Q' means 'P is the daughter of Q',

'P - Q' means 'P is the mother of Q',

'P % Q' means 'P is the brother of Q' and

'P \* Q' means 'P is the father of Q',

then which of the following will show the relationship that 'A is the sister-in-law of D'?

- a) A - B + C % D
- b) A % B - C \* D
- c) A \* B \* C % D
- d) A + B % C - D

Q.125) Select the term from among the given options that can replace the question mark(?) in the following series.

D5f, n15P, H9j, j11L, L13n, f7H, P17r, ?

- a) b3D
- b) r7D

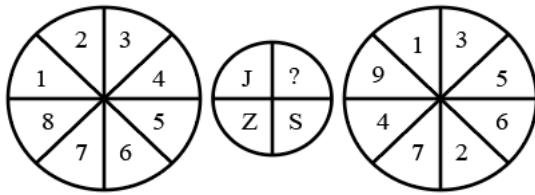
- c) R7d
- d) B3d

Q.126) Select the term from among the given options that can replace the question mark (?) in the following series.

ApD, FwM, KdV, ?, UrN, ZyW

- a) MkJ
- b) PkE
- c) VuS
- d) KfG

Q.127) Study the given pattern carefully and select the letter that can replace the question mark (?) in it.



- a) Y
- b) A
- c) R
- d) I

Q.128) Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R).

A: Doctoral scholars are hired as research assistants.

R: Doctoral scholars are given research training.

- a) Both A and R are true, but R is NOT the correct explanation of A.
- b) Both A and R are true, and R is the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true.

Q.129) In a survey of 300 students of a junior school, it was found that 45% students liked art class, 51% liked sports class, and 64% liked music class. Also, 29% liked art and sports classes both, 25% liked music and sports classes both, and 32% liked art and music classes both. 6% did not like any of the three classes.

What is the number of students who like only one of the three classes?

- a) 144
- b) 300
- c) 280
- d) 170

Q.130) Consider the given statement and decide which of the given assumptions is/are practical with respect to the statement.

Statement:

Since banks are violating the loan lending rules, RBI has decided to impose 5-crore fines on these banks.

Assumptions:

I. Banks have recently started expanding their branches.

II. RBI takes strict actions against banks that violate the rules and regulation implemented by RBI.

- a) Either assumption I or II is practical.
- b) Both assumptions I and II are practical.
- c) Only assumption II is practical.
- d) Only assumption I is practical.

Q.131) Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All dogs are cats.

The cats that are not dogs are rats.

Conclusions:

- I. Some rats are cats.
  - II. All cats are dogs.
  - III. Every cat is either a dog or a rat
- a) Only conclusions II and III follow.
  - b) Only conclusions I and II follow.
  - c) Only conclusions I and III follow
  - d) All conclusions, I, II and III, follow.

Q.132) ' $P + Q$ ' means ' $P$  is the brother of  $Q$ '.

' $P - Q$ ' means ' $P$  is the sister of  $Q$ '.

' $P \times Q$ ' means ' $P$  is the father of  $Q$ '.

Which of the following means ' $C$  is the son of  $G$ '?

- a)  $G \times A - C + B$
- b)  $G - A \times C + B$
- c)  $A + G - B \times C$
- d)  $B - C + A \times G$

Q.133) Read the given statements and conclusions carefully, and decide which of the conclusions logically follow(s) from the statements.

Statements:

No girl can dance.

Some girls are singers.

Conclusions:

- I. Boys can dance.
  - II. Some singers can dance.
- a) Only conclusion I follows.
  - b) Neither conclusion I nor II follows.
  - c) Both conclusions I and II follow.
  - d) Only conclusion II follows.

Q.134) If

' $A \$ B$ ' means ' $A$  is the son of  $B$ ',

' $A \# B$ ' means ' $A$  is the sister of  $B$ ', and

' $A @ B$ ' means ' $A$  is the father of  $B$ ',

then which of the following will show the relationship that ' $P$  is the daughter of  $Q$ '?

- a)  $P \$ Q @ R \# S$

- b) P # S \$ Q @ R
- c) Q \$ R @ S # P
- d) R @ S # P \$ Q

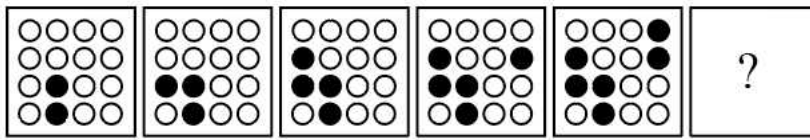
Q.135) What is the angle between the hour hand and the minute hand of an analogue clock when the time is 5:40 p.m.?

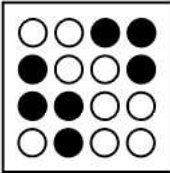
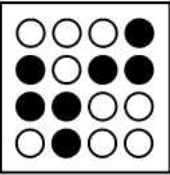
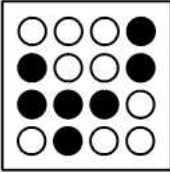
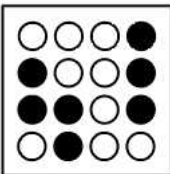
- a) 70°
- b) 170°
- c) 140°
- d) 240°

Q.136) Pointing to a photograph, a person said, "His mother is the wife of my father's only son". How is the speaker related to the person in the photograph?

- a) Mother
- b) Niece
- c) Aunt
- d) Sister-in-law

Q.137) Select the figure from among the given options that can replace the question mark (?) in the following series?



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

Q.138) Select the term from among the given options that can replace the question mark (?) in the following series.

AsT, cQv, EoX, ?, IkB

- a) GmW
- b) WhS
- c) MgW
- d) gMz

Q.139) Pallavi, Rashmi, Simran, Teesta, Urvashi and Vijaya ran a 16-km marathon.

- A) Pallavi beat Rashmi and Vijaya only.
- B) Urvashi was beaten by Teesta only.
- C) Simran did not come last in the marathon.
- D) The bronze medalist completed the marathon in 55 minutes.
- E) Rashmi completed the marathon in 63 minutes.

Who won the bronze medal?

- a) Urvashi
- b) Rashmi
- c) Simran
- d) Pallavi

Q.140) Read the given statement and conclusions carefully, and decide which of the conclusions logically follow(s) from the statement.

Statement:

It is impolite to interfere in an individual's personal matter.

Conclusions:

- I. It is bad to encroach in someone's private life.
  - II. Details regarding a person's profession don't come under the purview of one's personal matter.
- a) Only conclusion I follows.
  - b) Either conclusion I or II follows.
  - c) Only conclusion II follows.
  - d) Both conclusions I and II follow

Q.141) Eight employees of ABZ Corp. are sitting in a conference at a round table, facing the centre. Elanor is third to the right of Chris.

Abigail is sitting opposite to Fred and next to Brad. Douglas is second to the left of Elanor. Brad is second to the left of Gabriel.

Which two employees are sitting between Abigail and Elanor?

- a) Brad and Harriet
- b) Fred and Harriet
- c) Gabriel and Harriet
- d) Chris and Douglas

Q.142) What was the day of the week on 14 August 2010?

- a) Friday
- b) Sunday
- c) Saturday
- d) Monday

Q.143) Akash, Bisni, Charu, Dev, Elsa, Fiona and Gaurav sat for their high school examination and their scores were as follows:

- a. Bisni always scores more than Dev, who always scores more than Fiona.
- b. In any examination, if Charu scores the highest, Elsa scores the least, or if Akash scores the highest, Fiona or Gaurav scores the least.

c. No two students get equal scores.

If Fiona and Akash are ranked 4th and 5th, respectively, which of the following can be true?

- a) Charu is ranked 1st or 2nd
- b) Elsa is ranked 2nd or 3rd
- c) Gaurav is ranked 2nd or 3rd
- d) Bisni is ranked 2<sup>nd</sup> or 4<sup>th</sup>

Q.144) An electrical showroom sold televisions, air conditioners and washing machines in a month. It sold 20 air conditioners in the month of December 2020. In the same month, the number of washing machines sold was a quarter of the number of air conditioners sold. The number of televisions sold was the same as the number of air conditioners sold.

(A) The ratio of the different electrical items sold can be calculated.

(B) The number of dishwashers sold can be found out.

Based on the given information, which of the following options is correct?

- a) Only A can be determined.
- b) Neither A nor B can be determined.
- c) Only B can be determined.
- d) Both A and B can be determined.

Q.145) Nine students of the basketball team have to go out for an intercollege basketball competition. There are two school jeeps: red

jeep and blue jeep, each of which can accommodate five students. However, the following conditions must be met:

- (i) Vishakha will always go in the red jeep but does not want Akash to travel with her.
- (ii) Two out of three students — Mahak, Riya and Dinesh — will be in one jeep.
- (iii) Chahat and Naina will always travel together in a jeep.
- (iv) If Anamika and Akash are in the same jeep, then Viraj will also be in the same jeep.
- (v) No jeep can have more than five students.

If Mahak and Riya are in the red jeep, how many different combinations of students can travel in the jeeps?

- a) 5
- b) 6
- c) 7
- d) 4

Q.146) The JKF party was selecting the campaigning team that would manage their campaign during the coming elections. The team is

to include two spokespersons, two content writers and two digital managers. The spokespersons may be chosen from Abhay,

Bharti, Chhavi and Dhairya; the content writers may be chosen from Eklavya, Farah and Gauri; and the digital managers may be

selected from Himanshu, Isha, Jayanti and Keshav.

The following conditions need to be kept in mind before selecting the team:

- (i) Neither Farah nor Jayanti can be selected if Abhay is selected.
- (ii) If Chhavi is selected, then Jayanti is definitely selected.
- (iii) Himanshu and Keshav will always be selected together.
- (iv) Isha and Keshav will never be selected together.

Which combination is acceptable?

- a) Chhavi, Dhairya, Eklavya, Gauri, Farah, Isha

- b) Abhay, Bharti, Eklavya, Gauri, Isha, Keshav
- c) Abhay, Bharti, Eklavya, Farah, Himanshu, Isha
- d) Bharti, Chhavi, Eklavya, Farah, Jayanti, Isha

Q.147) In Karian village, truth-tellers always tell the truth and liars always tell lies. Harish approached three villagers, Hiri, Lange and

Pora, and asked who among them was the liar.

Following were their replies:

Hiri: I always speak the truth.

Lange: Hiri does not speak the truth.

Pora: Lange does not tell lies.

If one of them is a liar but the other two tell the truth, who among them is the liar?

- a) Pora
- b) Hiri
- c) Hiri or Lange
- d) Lange or Pora

Q.148) Anamika, Ankita, Vaishali and Litika play two instruments each, the guitar, tabla, piano and violin. Ankita and Vaishali do not

play the piano. Anamika and Litika do not play the tabla. Violin is not played by Ankita and Litika.

Who plays the guitar if each instrument is played by only two girls?

- a) Ankita and Litika
- b) Anamika and Litika
- c) Vaishali and Litika
- d) Ankita and Vaishali

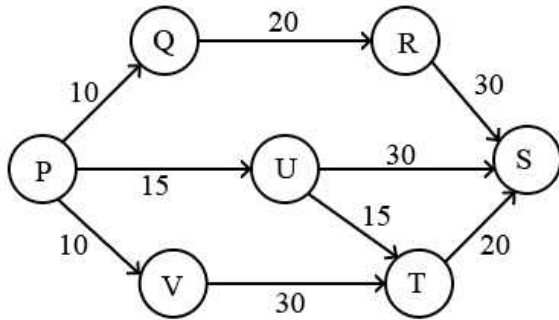
Q.149) Among five people, Rakesh is one and half times taller than Tarun, and Shyam is one and half times taller than Karan. If Pawan is half the height of Shyam and twice the height of Rakesh, who is the tallest of them all?

- a) Shyam
- b) Pawan
- c) Rakesh
- d) Karan

Q.150) An analogue clock shows 3:00 p.m. Through how many degrees will the hour hand rotate when the clock shows 10:00 p.m.?

- a)  $360^\circ$
- b)  $210^\circ$
- c)  $570^\circ$
- d)  $180^\circ$

Q.151) 800 local trains are every day between P and S in one direction. Q, R, U, V and T are different junctions. The cost (in ₹) of travelling on the train between different stations is given on the arrows in the figure shown. Each train takes the least expensive route between P and S.



Which route will the first 400 trains take on any given day?

- a) P-V-T-S
- b) P-U-T-S
- c) P-U-S
- d) P-Q-R-S

S.152-155) The passage below is accompanied by a set of questions, Please choose the best answer to each question:

Comprehension:

The criteria for selecting an IT Head for a company are as given.

The candidate:

1. must be a Computer Science graduate with at least 60% marks.
2. must have secured at least 60% in the screening test.
3. must be between the age group of 25 to 35 years as on 1 January 2021.
4. should have a work experience of at least 5 years as an IT Administrator.

If a candidate fulfils criteria 1 and 4 but does not meet criteria 2 and 3 but is a Red Hat certified professional, then she/he should be referred to the HR Manager. If a candidate fulfils criteria 1 and 2 but does not meet criteria 3 and has worked as an IT Administrator for

at least 1 year, she/he may be referred to the HR Head. Without any assumptions, based on the given criteria, you have to take a decision

for candidates whose profiles have been given in the questions.

Q.152) Himang was born on 18 February 1990 and is a Computer Science graduate with 68% marks.

He has been working as an IT

administrator for the last 6 years and secured 65% in the screening test. What decision would you take for Himang?

- a) He is to be referred to the HR Manager.
- b) He is not to be appointed as the IT Head.
- c) He is to be referred to the HR Head
- d) He is to be appointed as the IT Head.

Q.153) Vandita was born on 21 October 1997 and is a Red Hat certified professional. She has scored 65% in B.Sc. Computer Science

and 60% in the screening test. She has a work experience of two years in the IT department of a reputed company. What

decision would you take for Vandita?

- a) She is not to be appointed as the IT Head.
- b) She is to be referred to the HR Manager.
- c) She is to be referred to the HR Head.
- d) She is to be appointed as the IT Head.



Q.154) Pankaj, a Red Hat certified professional, has been working as an IT Administrator in a reputed organisation for the last three years. He was born on 8 July 1998, and secured 65% in both his graduation in Computer Science as well as in the screening test.

What decision would you take for Pankaj?

- a) He is to be referred to the HR Head.
- b) He is to be appointed as the IT Head.
- c) He is not to be appointed as the IT Head.
- d) He is to be referred to the HR Manager.

Q.155) Devika is a Computer Science graduate who secured 63% in her graduation and 54% in her screening test. She has been working in a reputed organisation as an IT Administrator for the last 6 years. Devika is a Red Hat certified professional who was born on

30 January 1985. What decision would you take for Devika?

- a) She is to be referred to the HR Manager.
- b) She is not to be appointed as the IT Head.
- c) She is to be appointed as the IT Head.
- d) She is to be referred to the HR Head.

Q.156) Read the given statements and conclusions carefully, and decide which of the conclusions logically follow(s) from the statements.

Statements:

Some artists are actors.

All actors are dancers.

Conclusions:

A. Some artists are dancers.

B. No actor is an artist.

a) Only conclusion B follows.

b) Neither conclusion A nor B follows.

c) Both conclusions A and B follow.

d) Only conclusion A follows.

**S.157-158)** The passage below is accompanied by a set of questions, please choose the best answer to each question:

Comprehension:

The COVID lockdown period saw a rise in the sales of bicycles. In the month of September 2020, the sale was twice that of November

2020. The sale of bicycles in September and December 2020 was the same. The sale of bicycles in October 2020 was double that of

December 2020. The number of bicycles sold in November 2020 was 2197.

Q.157) What is the percentage of bicycles sold in November 2020?

- a) 33.33%
- b) 22.22%
- c) 11.11%
- d) 44.44%

Q.158) How many bicycles were sold in October 2020?

- a) 8788

- b) 4394
- c) 2197
- d) 6591

Q.159) Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All meteors are asteroids.

All planets are asteroids.

Conclusions:

I. Some planets are meteors.

II. No planet is a meteor.

- a) Either conclusion I or II follows.
- b) Only conclusion II follows.
- c) Neither conclusion I nor II follows.
- d) Only conclusion I follows

Q.160) Consider the given statement and decide which of the given assumptions is/are correct.

Statement:

Students who waste paper will have to plant ten trees daily.

Assumptions:

I. There is a shortage of trees in the environment.

II. Unless students are taught the significance of trees, they will not stop paper wastage.

- a) Neither assumption I nor II is correct.
- b) Only assumption II is correct.
- c) Both assumptions I and II are correct.
- d) Only assumption I is correct.

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## Solutions

### VERBAL ABILITY

- Q.1) Answer-C
- Q.2) Answer-C
- Q.3) Answer-D
- Q.4) Answer-C

- Q.5) Answer-A
- Q.6) Answer-B
- Q.7) Answer-A
- Q.8) Answer-B
- Q.9) Answer-D
- Q.10) Answer-C
- Q.11) Answer-C
- Q.12) Answer-C
- Q.13) Answer-C
- Q.14) Answer-C
- Q.15) Answer-A
- Q.16) Answer-A
- Q.17) Answer-A
- Q.18) Answer-D
- Q.19) Answer-C
- Q.20) Answer-D
- Q.21) Answer-C
- Q.22) Answer-D
- Q.23) Answer-D
- Q.24) Answer-B
- Q.25) Answer-A
- Q.26) Answer-C
- Q.27) Answer-B
- Q.28) Answer-D
- Q.29) Answer-A
- Q.30) Answer-A
- Q.31) Answer-B
- Q.32) Answer-C
- Q.33) Answer-C
- Q.34) Answer-C
- Q.35) Answer-A
- Q.36) Answer-A
- Q.37) Answer-B
- Q.38) Answer-C
- Q.39) Answer-D
- Q.40) Answer-C

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**DATA INTERPRETATION**

- Q.41) Answer-A
- Q.42) Answer-C
- Q.43) Answer-D
- Q.44) Answer-D
- Q.45) Answer-A
- Q.46) Answer-A
- Q.47) Answer-A
- Q.48) Answer-A
- Q.49) Answer-C
- Q.50) Answer-A

- Q.51) Answer-D
- Q.52) Answer-B
- Q.53) Answer-C
- Q.54) Answer-D
- Q.55) Answer-B
- Q.56) Answer-C
- Q.57) Answer-C
- Q.58) Answer-C
- Q.59) Answer-C
- Q.60) Answer-D
- Q.61) Answer-B
- Q.62) Answer-B
- Q.63) Answer-B
- Q.64) Answer-C
- Q.65) Answer-A
- Q.66) Answer-C
- Q.67) Answer-C
- Q.68) Answer-D
- Q.69) Answer-C
- Q.70) Answer-D
- Q.71) Answer-A
- Q.72) Answer-C
- Q.73) Answer-D
- Q.74) Answer-D
- Q.75) Answer-C
- Q.76) Answer-C
- Q.77) Answer-B
- Q.78) Answer-B
- Q.79) Answer-A
- Q.80) Answer-C

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**QUANTITATIVE ABILITY**

- Q.81) Answer-C
- Q.82) Answer-B
- Q.83) Answer-B
- Q.84) Answer-B
- Q.85) Answer-A
- Q.86) Answer-D
- Q.87) Answer-A
- Q.88) Answer-B
- Q.89) Answer-B
- Q.90) Answer-D
- Q.91) Answer-A
- Q.92) Answer-B
- Q.93) Answer-D
- Q.94) Answer-D

- Q.95) Answer-A
- Q.96) Answer-D
- Q.97) Answer-A
- Q.98) Answer-B
- Q.99) Answer-C
- Q.100) Answer-D
- Q.101) Answer-D
- Q.102) Answer-A
- Q.103) Answer-C
- Q.104) Answer-D
- Q.105) Answer-D
- Q.106) Answer-A
- Q.107) Answer-B
- Q.108) Answer-C
- Q.109) Answer-B
- Q.110) Answer-A
- Q.111) Answer-C
- Q.112) Answer-A
- Q.113) Answer-A
- Q.114) Answer-B
- Q.115) Answer-D
- Q.116) Answer-B
- Q.117) Answer-D
- Q.118) Answer-A
- Q.119) Answer-D
- Q.120) Answer-C



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**REASONING AND LOGICAL ABILITY**

CONNECT | ASPIRE | TRANSFORM

- Q.121) Answer-D
- Q.122) Answer-B
- Q.123) Answer-B
- Q.124) Answer-A
- Q.125) Answer-A
- Q.126) Answer-B
- Q.127) Answer-C
- Q.128) Answer-A
- Q.129) Answer-A
- Q.130) Answer-C
- Q.131) Answer-C
- Q.132) Answer-A
- Q.133) Answer-B
- Q.134) Answer-B
- Q.135) Answer-A
- Q.136) Answer-C
- Q.137) Answer-A
- Q.138) Answer-D
- Q.139) Answer-C

- Q.140) Answer-A
- Q.141) Answer-A
- Q.142) Answer-C
- Q.143) Answer-C
- Q.144) Answer-A
- Q.145) Answer-D
- Q.146) Answer-D
- Q.147) Answer-B
- Q.148) Answer-A
- Q.149) Answer-A
- Q.150) Answer-B
- Q.151) Answer-C
- Q.152) Answer-D
- Q.153) Answer-A
- Q.154) Answer-A
- Q.155) Answer-A
- Q.156) Answer-D
- Q.157) Answer-C
- Q.158) Answer-A
- Q.159) Answer-B
- Q.160) Answer-D

