



# AJEENKYA

## D Y PATIL UNIVERSITY

### End Term Examinations (December 2018)

**School: School of Information Technology**

**Program: BCA (CTIS & MACT)  
BSc.(Animation & VFX)**

**Course: Reasoning and Thinking-II**

**Course Code: GL0117**

**Semester: III**

**Max Marks: 30**

**Duration (mins): 60**

Note- Attempt all the questions(Each question- 1 Mark) (30)

- Find the antonym for the given word: STARTLED  
(a) Amused (b) Relaxed (c) Endless (d) Astonished
- Find the synonyms for the given word: SHALLOW  
(a) Artificial (b) Superficial (c) Foolish (d) Worthless
- Despite \_\_\_\_\_ printed in newspapers and broadcast over the internet and on television, Americans \_\_\_\_\_ to lose millions to internet con artists.  
(a) Predictions..... persevere (b) warnings.... continue  
(c) encouragement.... proceed (d) cautions... persist
- On what dates of April, 2001 did Wednesday fall?  
(a) 1<sup>st</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup>, 29<sup>th</sup> (b) 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup>, 23<sup>rd</sup>, 30<sup>th</sup>  
(c) 3<sup>rd</sup>, 10<sup>th</sup>, 17<sup>th</sup>, 24<sup>th</sup> (d) 4<sup>th</sup>, 11<sup>th</sup>, 18<sup>th</sup>, 25<sup>th</sup>
- The G.C.D. of 1.08, 0.36 and 0.9 is:  
(a) 0.03 (b) 0.9 (c) 0.18 (d) 0.108
- A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is :  
(a)  $\frac{1}{4}$  (b)  $\frac{1}{10}$  (c)  $\frac{7}{15}$  (d)  $\frac{8}{15}$

7. A man completes a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.  
(a) 220 km                      (b) 224 km                      (c) 230 km                      (d) 234 km
8. Two trains are running in opposite directions with the same speed. If the length of each train is 120 metres and they cross each other in 12 seconds, then the speed of each train (in km/hr) is:  
(a) 10                              (b) 18                              (c) 36                              (d) 72
9. CMM, EOO, GQQ, \_\_\_\_\_, KUU  
(a) GRR                          (b) GSS                          (c) ISS                              (d) ITT
10. In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green?  
(a)  $\frac{1}{3}$                               (b)  $\frac{3}{4}$                               (c)  $\frac{7}{19}$                               (d)  $\frac{8}{21}$
11. In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?  
(a) 810                              (b) 1440                              (c) 2880                              (d) 50400
12. The angle between the minute hand and the hour hand of a clock when the time is 4.20, is:  
(a)  $0^\circ$                               (b)  $10^\circ$                               (c)  $5^\circ$                               (d)  $20^\circ$
13. P, Q, R, S, T, U, V and W are sitting round the circle and are facing the centre:  
P is second to the right of T who is the neighbour of R and V.  
S is not the neighbour of P.  
V is the neighbour of U.  
Q is not between S and W. W is not between U and S.  
Which two of the following are not neighbours?  
(a) RV                              (b) UV                              (c) RP                              (d) QW
14. In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?  
(a) 63                              (b) 90                              (c) 126                              (d) 45
15. The largest 4 digit number exactly divisible by 88 is:  
(a) 9944                              (b) 9768                              (c) 9988                              (d) 8888
16. Introducing Sonia, Aamir says, "She is the wife of only nephew of only brother of my mother." How Sonia is related to Aamir?

- (a) Wife                      (b) Sister                      (c) Sister-in-law                      (d) Data is inadequate
17. Which ONE of these is an example of raw data?
- (a) A transcript from a group.                      (b) An annual company report.  
(c) A report on a specific industrial sector.                      (d) A report on qualitative focus groups
18. Which of the following is the weakness of qualitative data?
- (a) Limited Options                      (b) Possibility of Bias  
(c) High complexity                      (d) Require Expertise
19. Find the first term of an AP whose 8<sup>th</sup> and 12<sup>th</sup> terms are respectively, 39 and 59.
- (a) 5                      (b) 6                      (c) 4                      (d) 3
20. A grocer has a sale of Rs. 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6500?
- (a) 4800                      (b) 4991                      (c) 5004                      (d) 5000
21. The mean of 9 observations is 16. One more observation is included and the new mean becomes 17. The 10<sup>th</sup> observation is
- (a) 18                      (b) 26                      (c) 30                      (d) 7
22. Find the median in the following numbers: 9, 8, 15, 8, 20
- (a) 20                      (b) 15                      (c) 8                      (d) None of the above
23. Find the mode in the following numbers: 9, 8, 15, 8, 20
- (a) 15                      (b) 8                      (c) 9                      (d) 20
24. The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

Student	Subject (Max. Marks)					
	Maths	Chemistry	Physics	Geography	History	Computer Science
	(150)	(130)	(120)	(100)	(60)	(40)
Ayush	90	50	90	60	70	80
Aman	100	80	80	40	80	70
Sajal	90	60	70	70	90	70
Rohit	80	65	80	80	60	60
Muskan	80	65	85	95	50	90
Tanvi	70	75	65	85	40	60
Tarun	65	35	50	77	80	80

**The Numbers in the Brackets give the Maximum Marks in Each Subject.**

What are the average marks obtained by all the seven students in Physics? (rounded off to two digit after decimal)

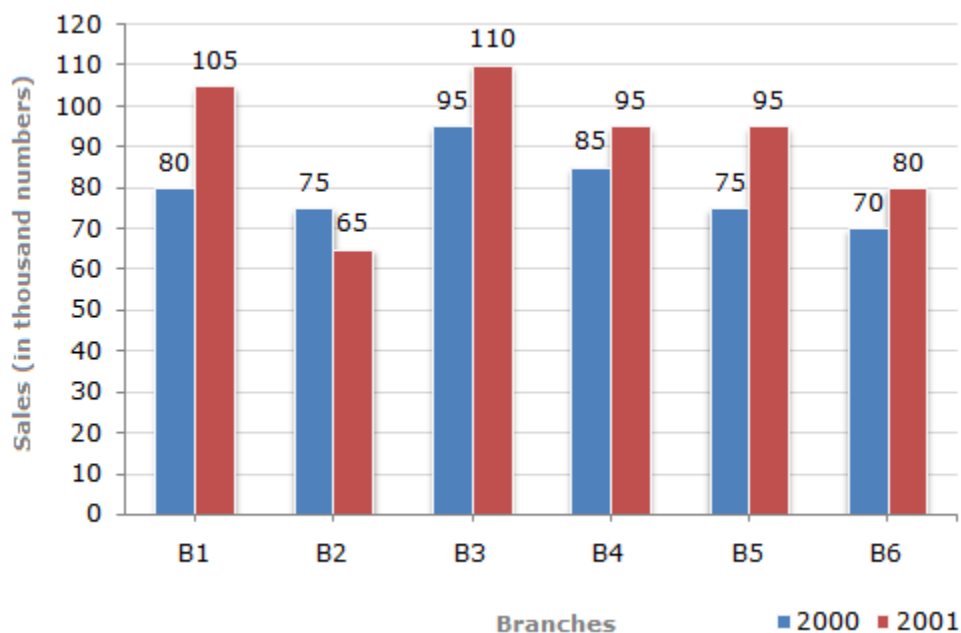
- (a) 77.26                      (b) 89.14                      (c) 91.37                      (d) 96.11

25. For a distribution, mode is 50.04, mean =45, Find median.

- (a) 35.29                      (b) 25.01                      (c) 42.12                      (d) 46.68

26. The bar graph given below shows the sales of books (in thousand number) from six branches of a publishing company during two consecutive years 2000 and 2001.

**Sales of Books (in thousand numbers) from Six Branches - B1, B2, B3, B4, B5 and B6 of a publishing Company in 2000 and 2001.**



What is the average sales of all the branches (in thousand numbers) for the year 2000?

- (a) 73                      (b) 80                      (c) 83                      (d) 88

27. The scores for student are 42, 46, 52, 61, 68, 79, 85, 92. What is the percentile for score 61?

- (a) 37                      (b) 20                      (c) 14                      (d) 41

28. Find the Harmonic mean for the numbers 2,3, 5.

- (a) 1.6                      (b) 2.9                      (c) 3.2                      (d) 4.1

29. Find the geometric mean of  $\frac{1}{2}$  and 40.

- (a)  $2\sqrt{5}$                       (b)  $7\sqrt{2}$                       (c)  $11\sqrt{3}$                       (d)  $3\sqrt{2}$

30. The mean of 50 observations was 36. It was found later that an observation 48 was wrongly taken as 23. The corrected new mean is :

- (a) 35                      (b) 36.5                      (c) 40                      (d) 42