

Applied Math M.C.Q's

No. of Questions: 20 (from 1 to 20)

Time allowed: 30 Minutes

Questions on Page Nos: 1 To 4

Negative markings: Yes

- Q1.** Three years back, a mother was 24 years older than her daughter. At present the mother is 5 times as old as the daughter. How old will the daughter be three years from now?
- A. 12
 - B. 6
 - C. 3
 - D. 9
- Q2.** If the mean of numbers 28, x , 42, 78 and 104 is 62, what is the mean of 48, 62, 98, 124 and x ?
- A. 78
 - B. 58
 - C. 390
 - D. 310
- Q3.** The average age of a group of 10 students was 20. The average age increased by 2 years when two new students joined the group. What is the average age of the two new students who joined the group?
- A. 22 years
 - B. 30 years
 - C. 44 years
 - D. 32 years
- Q4.** In an election contested by two parties, Party T secured 12% of the total votes more than Party S. If party S got 132,000 votes, by how many votes did it lose the election?
- A. 36,000
 - B. 168,000
 - C. 240,000
 - D. 300,000
- Q5.** Fahad buys 10 apples for \$1. At what price should he sell a dozen apples if he wishes to make a profit of 25%?
- A. \$0.125
 - B. \$1.50
 - C. \$1.25
 - D. \$0.25

ALL ANSWERS MUST BE GIVEN ON THE ANSWER SHEET BY CROSSING THE CORRESPONDING LETTER

- Q6.** A, B and C, each of them working alone can complete a job in 6, 8 and 12 days respectively. If all three of them work together to complete a job and earn \$ 2340, what will be C's share of the earnings?
- A. \$1100
B. \$ 1080
C. \$ 520
D. \$ 1170
- Q7.** In a class of 40 students, 12 enrolled for both English and German. 22 enrolled for German. If the students of the class enrolled for at least one of the two subjects, then how many students enrolled for only English and not German?
- A. 10
B. 18
C. 28
D. 30
- Q8.** Talha invested a certain sum of money at 8% p.a. simple interest for 'n' years. At the end of 'n' years, Talha got back 4 times his original investment. What is the value of n?
- A. 50 years
B. 25 years
C. 12 years 6 months
D. 37 years 6 months
- Q9.** Wajeeha travels the first 3 hours of his journey at 60 mph speed and the remaining 5 hours at 24 mph speed. What is the average speed of Wajeeha's travel in mph?
- A. 42 mph
B. 36 mph
C. 37.5 mph
D. 42.5 mph
- Q10.** A poultry farm has only chickens and sheep. When the manager of the poultry counted the heads of the stock in the farm, the number totaled up to 200. However, when the number of legs was counted, the number totaled up to 540. How many chickens were there in the farm?
- A. 60
B. 70
C. 120
D. 130
- Q11.** The solution of a quadratic equation $x^2 + 5x - 6 = 0$
- A. $X = -1, X = 6$
B. $X = 1, X = -6$
C. $X = 1$
D. $X = 6$

Q12. If $3x = 6x - 15$ then $x + 8 = ?$

- A. 5
- B. 10
- C. 11
- D. 13

Q13. Which fraction is equal to 0.20%?

- A. $\frac{1}{500}$
- B. $\frac{1}{400}$
- C. $\frac{1}{50}$
- D. $\frac{1}{40}$

Q14. A hockey team won 6 games and lost 8. What is the ratio of wins to number of games?

- A. $\frac{6}{8}$
- B. $\frac{8}{6}$
- C. $\frac{3}{7}$
- D. $\frac{8}{14}$

Q15. What is $\frac{1}{9}$ of 9?

- A. 81
- B. 0
- C. 1
- D. 2

Q16. Which of the following is equal to 7.93×10^{-2} ?

- A. 0.0793
- B. 0.00793
- C. 793
- D. 7930

Q17. Murtaza receives a base salary of \$90 weekly plus a 12% commission on all sales. Murtaza had \$3,000 in sales this week. How much did Murtaza make in total?

- A. \$375
- B. \$450
- C. \$480
- D. \$510

Q18. If an object travels at five feet per second, how many feet does it travel in one hour?

- A. 300 feet
- B. 720 feet
- C. 1800 feet
- D. 18000 feet

Q19. $(\sqrt{2} - \sqrt{3})^2 = ?$

- A. $5 - 2\sqrt{6}$
- B. $5 - \sqrt{6}$
- C. $1 - 2\sqrt{6}$
- D. $1 - \sqrt{2}$

Q20. $2^{30} + 2^{30} + 2^{30} + 2^{30} = ?$

- A. 8^{120}
- B. 8^{30}
- C. 2^{32}
- D. 2^{30}

If you finish before time is called, you may check your work on this section only.
(Stop. Do not turn over the next page until you are told to do so.)

ALL ANSWERS MUST BE GIVEN ON THE ANSWER SHEET BY CROSSING THE CORRESPONDING LETTER

English M.C.Q's

No. of Questions: 30 (from 21 to 50)

Time allowed: 35 Minutes

Questions on Page Nos: 5 To 10

Negative markings: Yes

Read the following passage carefully, then answer the questions below.

Fiery instinct, futuristic outlook, indomitable will, and a burning passion was all that Dhirubhai Ambani had when he set out to work his way for a living in the lanes of Bombay, way back in 1958. From being a spice dealer to a cloth merchant to a textile producer, it was his overarching ambition, inexhaustible energy and never-say-die spirit that led him through all the obstacles to emerge as the business tycoon of India. He established and laid the foundation for Reliance Industries, which has become one of the largest conglomerates of India today. It was through his futuristic vision and strong business acumen that Reliance Industries created history in the Indian industry, a legacy that would serve as an inspiration for generations to come! Dhirubhai Ambani's life is surely the rags to riches story, as he took one step at a time to become one of the industrial giants of the country. Fuelled by an aim to 'Think Big, Think Differently, Think Fast and Think Ahead' his capacities in the entrepreneurial sector were in stark contrast with his competitors, as he promised his dealers a deal that was revolutionary, 'profit we share, losses are mine'. It was through his zeal, bonhomie and invincible spirit of conquering the universe that he transformed his men from clay into steel and helped them attain the pinnacle of success.

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21. He had stark contrast with his competitors in the entrepreneurial sector because

- A. He believed in equal sharing of profits and losses
- B. The ratio of profits to loss was predetermined
- C. He vowed sole responsibility for the loss
- D. He believed in low profits, high volumes and rich quality

22. Which statement is true of Dhirubhai Ambani

- A. Aimed for simple achievements one step at a time and triumphed
- B. He took several steps closely speculating in the markets
- C. He was most successful in his first venture of textile business
- D. He did not excel in entrepreneurial skills

23. Which statement is not true about Dhirubhai Ambani

- A. Profit we share and all loss will be mine
- B. He presented a daring attitude and gutsy behavior
- C. Over a period of time, reliance industries diversify into other sectors
- D. He has an inspirational story, from rich to riches

24. The word bonhomie means...

- A. Congenial
- B. Authoritative
- C. Galvanize
- D. Enkindle

25. Which of the following adjectives does not define Dhirbhai Ambani

- A. Invincible
- B. Visionary
- C. Endeavoring
- D. Daunting

26. Transformed his men from clay into steel and helped them attain the pinnacle of success.

- A. He learnt tricks of trade and soon made profitable deals
- B. He created equal opportunities for his men
- C. He transforms every trade into thriving business yielding great profits
- D. He promised equal profit and loss sharing revolutionary deals

Select the option that best replaces the underlined part of each sentence.

27. Consider the words of Benjamin Franklin: there never was a good war or bad peace.

- A. 'There never was a good war or bad.'
- B. There never was a good or bad war.
- C. "There never was a good war or bad peace".
- D. "There never was a good war and bad peace."

28. Faith is love. It cannot be forced

- A. Faith is love; it cannot be forced
- B. Faith is love: It cannot be forced
- C. Faith is love, it cannot be forced
- D. Faith is love. It cannot be forced

29. Hassan has thirty DVD on his desk.

- A. DVD on his desk
- B. DVD's on his desk
- C. DVDs on his desk
- D. 'DVDs' on his desk

30. Each area has it's own conference room.

- A. It's own conference room
- B. Its own conference room
- C. It's own, conference room
- D. Its' own conference room.

31. 'I'm here as a part of my service learning project' , I told the class teacher.

- A. "I'm here as a part of my service-learning project," I told the class teacher.
- B. 'I'm here as a part of my service-learning project,' I told the class teacher.
- C. "Im here as a part of my service-learning project," I told the class teacher.
- D. 'I'm here as a part of my service-learning project.' I told the class teacher.

ALL ANSWERS MUST BE GIVEN ON THE ANSWER SHEET BY CROSSING THE CORRESPONDING LETTER

Select the closest meaning to the underlined word.

There is little hope for amelioration in the coming years, Vietnamese doctor's fear, as the effects linger on in this devastated southern region on this "bereaved country."

32. Amelioration

- A. effervescence
- B. enhancement
- C. scintillate
- D. mitigation

33. bereaved

- A. dispossessed
- B. psychedelic
- C. gladdened
- D. ebullient

I nodded seriously, as though there was nothing ludicrous in the thought of Ahmed in a pair of spangled tights flying through the air on a trapeze.

34. Ludicrous

- A. Ambivalent
- B. Nonchalance
- C. Enthralling
- D. Preposterous

His whole body froze in fear and revulsion, froze as the snake moved relentlessly upward.

35. Revulsion

- A. horror
- B. frantic
- C. stupefied
- D. recluse

Step by step, I set out on my way along the wide wall of the slag-like debris that forms a sort of fortification all around the precipice.

36. Precipice

- A. Projectile
- B. Cliff
- C. Parapet
- D. Trajectories

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For questions 37-42, please select an appropriate choice.

37. At the beginning of dot-com wave, students created new businesses in record numbers.

- A. In the beginning of dot-com wave, students created new businesses in record numbers.
- B. After the beginning of dot-com wave, students created new businesses in record numbers.
- C. At the beginning of the dot-com wave, students created new businesses in record numbers.
- D. Before the beginning of dot-com wave, students created new businesses in record numbers.

38. The competitor mounted confidently his skateboard.

- A. The competitor mounted his skateboard confidently.
- B. The competitor confidently mounted his skateboard.
- C. The competitor mounted the skateboard confidently.
- D. The confident competitor mounted the skateboard.

39. Recovering from the abdominal surgery requires patience.

- A. Recovering from abdominal surgery requires patience.
- B. Recovering from a abdominal surgery requires patience.
- C. Recovering from an abdominal surgery requires patience.
- D. Recovering from the abdominal surgery requires patience.

40. As I looked out the window of the plane, I could see the Cape Cod.

- A. As I looked out the window of plane, I could see the Cape Cod.
- B. As I looked out the window of the plane, I could see Cape Cod.
- C. As I looked out the window of the plane, I could see the Cape Cod.
- D. As I looked out of window, of the plane, I could see the Cape Cod.

41. Recently have been number of earthquakes in Pakistan.

- A. Recently have there been number of earthquakes in Pakistan.
- B. Recently their have been number of earthquakes in Pakistan.
- C. Recently there have been a number of earthquakes in Pakistan.
- D. Recently there have been number off earthquakes in Pakistan.

42. What is the address of the artist Antonio hired?

- A. What is the address of the artist who Antonio hired?
- B. What is the address of the artist Antonio hired?
- C. What is the address of the artist whom Antonio hired?
- D. What is the address of the artist, Antonio hired?

For questions 43-46, please select the closest meaning to the given phrases

43. Leaders must demonstrate infectious optimism and the determination to persevere in the face of difficulties.
- A. The leader should be able to give you the feeling of confidence in all circumstances
 - B. A leader should be able to radiate confidence even when he himself is uncertain of the outcome.
 - C. All leaders are optimists' with immense confidence
 - D. In difficult times leaders should always be positive
44. In the early days, shortage of cash obliged me to pay peanut salaries. Pay peanut salaries, says Jimmy Goldsmith, and you get monkeys. I chose not to promote any monkeys....
- A. Jimmy Goldsmith favors paying peanut salaries, if cash is low
 - B. Low salary means hiring staff that would do exactly as told and imitate mindlessly like monkeys
 - C. Low salary means recruiting noisy staff who cannot accomplish tasks
 - D. One cannot expect to hire potential leaders at peanut salaries
45. Originality is the most dangerous word in advertising. Preoccupied with originality. Copy writers pursue something as illusory as swamp fire, for which the Latin phrase is ignis factuus.
- A. The writer says this because he believes that there is no such thing as 'original'
 - B. He believes that originality is a deceptive goal or hope
 - C. In the field of advertising people take inspiration from others and invent their Big Idea
 - D. Originality here refers to creativity
46. The motivation which makes a man a good student is not the kind of motivation which makes him a good leader.
- A. An impressive curriculum vitae is the best way assess the ability for a good leader
 - B. Corporates reject executives who do not fit their conventions
 - C. Characteristically a good student is orthodox and may resist innovation unlike a good leader
 - D. A good leader willing takes up challenges and risks

Please read the following passage, and then answer the questions below.

Bangladesh trials

GREAT harm can be wrought if the line separating punishment from vengeance becomes blurred, making it all the more urgent to not just ensure that justice is done, but that it is also seen to be done. Unfortunately, Bangladesh stands poised on the brink of this misstep as regards the controversy that surrounds the trials taking place of people accused of having committed atrocities during the period of the 1971 war. The process of investigating the alleged abuses was initiated in 2010 by the government of Prime Minister Sheikh Hasina Wajed with opposition parties maintaining that the trials were being used as a political tool. The government denies this, but given that there are doubts that the proceedings meet international fair trial standards, the distrust remains. This latter point was underscored on Friday when Human Rights Watch, while urging the Bangladesh government to suspend the executions of two opposition leaders convicted of war crimes, said that "Justice and accountability for the terrible crimes committed during ... [the] war are crucial, but trials need to meet international fair trial standards. ... Unfair trials can't provide real justice, especially when the death penalty is imposed."

The two opposition leaders whose executions are being referred to here are Ali Ahsan Mohammad Mujahid, secretary-general of the Jamaat-i-Islami, and Salahuddin Quader Chowdhury, earlier a legislator from former Prime Minister Khaleda Zia's Bangladesh Nationalist Party. Both have been handed down the death penalty for war crimes and on Wednesday, the Bangladesh Supreme Court rejected their final appeal against their

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sentences, paving the way for their execution unless the president grants them clemency on the basis of their mercy petitions. For the convicted men, the death sentences ought to be suspended in the interests of humane treatment and the irrevocability of this penalty — which this newspaper has always opposed. But for the reputation of Bangladesh itself, it is important that the standards that prevail at these trials be drastically improved and the process be stripped bare of any vestige of political motivation.

Editorial-Published in Dawn, November 22nd, 2015

47. “Great harm can be wrought if the line separating punishment from vengeance becomes blurred.” The editorial intends to say...

- A. It can wrought great harm because death penalty is viewed revengeful
- B. In sensitive situations judicial decisions are under scrutiny and pledged unfair
- C. Great precaution is required for Justice to prevail and not retribution
- D. A subtle situation in which punishment is viewed as justice to avenge atrocity

48. “Making it all the more urgent to not just ensure that justice is done, but that it is also seen to be done.” The editorial asserts.....

- A. Death penalties are viewed as political vendetta
- B. Fair trials can ensure justice
- C. Justice should not be driven by political motivation
- D. It is one thing to talk about justice, and another to ensure its commission

49. Unfortunately, Bangladesh stands poised on the brink of this misstep as regards the controversy. By this, the editorial argues...

- A. Bangladesh is making a mistake because the trials are unfair and imposed
- B. Step taken by Bangladesh is a mistake
- C. Bangladesh has called havoc upon itself
- D. The imposition of the death penalty will be perceived as a miscarriage of justice.

50. “The death sentences ought to be suspended in the interests of humane treatment and the irrevocability of this penalty — which this newspaper has always opposed.” Here it proposes....

- A. This newspaper has always opposed death penalty
- B. This newspaper favors prison sentences and opposes the death penalty
- C. This newspaper opposes suspension of death penalty for a convicted man
- D. Standards of trials may have flaws

This is the END of the MCQs part of the Test.

Please wait for the third part of the test, which is about a CASE STUDY.