

SAMVAAD ENTRANCE EXAMINATION

Class – XI (Commerce with Maths)

NOTE- Choose the correct option in given questions and write it in your Answer Booklet:-

Subject: English

Q1. Which sentence contains an adverbial phrase?

- (A) He answered the question wisely.
- (B) She spoke in a low voice.
- (C) They completed the task.
- (D) We admired her beauty.

Q2. In the sentence “No sooner had he arrived than the meeting began”, the structure shows an example of:

- (A) Simple past tense
- (B) Correlative conjunction
- (C) Inversion
- (D) Substitution

Q3. Identify the correct sentence:

- (A) Neither the teacher nor the students was prepared.
- (B) Neither the teacher nor the students were prepared.
- (C) Neither the teacher or the students were prepared.
- (D) Neither the teacher nor the student were prepared.

Q4. Choose the sentence with correct parallel structure:

- (A) She likes reading, to write and painting.
- (B) She likes reading, writing and painting.
- (C) She likes to read, writing and to paint.
- (D) She likes read, write and paint.

Q5. Which sentence shows the correct use of subjunctive mood?

- (A) I wish I was taller.
- (B) I wish I am taller.
- (C) I wish I were taller.
- (D) I wish I will be taller.

Q6. Identify the type of clause in :

“The fact that he lied shocked everyone.”

- (A) Adjective clause
- (B) Adverb clause
- (C) Noun clause

(D) Independent clause

Q7. Choose the correct transformation into passive voice:

“They are going to complete the project by Monday.”

- (A) The project was going to be completed by Monday.
- (B) The project will have been completed by Monday.
- (C) The project is going to be completed by Monday.
- (D) The project has been completed by Monday.

Q8. Which option contains a dangling modifier?

- (A) While walking through the park, birds were chirping.
- (B) Walking through the park, I heard birds chirping.
- (C) While I was walking, I heard birds.
- (D) I walked through the park hearing birds chirping.

Q9. Find the correct indirect speech:

“He said, ‘I must finish this work tonight.’”

- (A) He said that he must finish that work tonight.
- (B) He said that he had to finish that work that night.
- (C) He said that he must finish that work that night.
- (D) He said that he must finished that work.

Q10. Choose the correct use of a semi-modal:

- (A) He dare not to speak.
- (B) He dare not speak.
- (C) He dares not to speak.
- (D) He dared not spoke.

Q11. Identify the correct sentence:

- (A) Scarcely had she entered than the bell rang.
- (B) Scarcely had she entered when the bell rang.
- (C) Scarcely she had entered when the bell rang.
- (D) Scarcely had entered she when the bell rang.

Q12. Choose the correct conditional sentence:

- (A) If I would have known, I would help you.
- (B) If I knew, I will help you.
- (C) If I had known, I would have helped you.
- (D) If I know, I would have helped you.

Q13. Which sentence uses a gerund as subject?

- (A) I enjoy swimming.
- (B) Swimming is good for health.
- (C) She is swimming now.
- (D) We went for a swim.

Q14. Identify the figure of speech:

“The wind whispered through the trees.”

- (A) Simile
- (B) Metaphor
- (C) Personification
- (D) Alliteration

Q15. Which of the following words is an abstract noun?

- (A) Table
- (B) Freedom
- (C) Shirt
- (D) Teacher

Q16. Choose the sentence with correct article usage:

- (A) He is an European citizen.
- (B) She is a honest girl.
- (C) He is a European citizen.
- (D) She is an honest girl.

Q17. Select the correct complex sentence:

- (A) He was tired, so he slept.
- (B) Although he was tired, he slept.
- (C) He was tired and he slept.
- (D) He slept due to tiredness.

Q18. Find the correct synonym of “Ubiquitous”:

- (A) Rare
- (B) Present everywhere
- (C) Dangerous
- (D) Temporary

Q19. Choose the correct antonym of “Obsolete”:

- (A) Outdated
- (B) Ancient
- (C) Modern
- (D) Redundant

Q20. Which sentence contains an oxymoron?

- (A) Deafening silence filled the hall.
- (B) The sun was shining brightly.
- (C) He was extremely happy.
- (D) The wind blew violently.

Q21. Identify the kind of sentence:

"May God bless you!"

- (A) Assertive
- (B) Imperative
- (C) Interrogative
- (D) Optative

Q22. Choose the sentence with correct use of “used to”:

- (A) I am used to play football.
- (B) I used to playing football.
- (C) I used to play football.
- (D) I am used to played football.

Q23. Which sentence is grammatically incorrect?

- (A) Ten kilometers is not a short distance.
- (B) Bread and butter are his breakfast.
- (C) The news is very depressing.
- (D) Mathematics is my favourite subject.

Q24. One word substitute for “a person who loves mankind”

- (A) Misanthrope
- (B) Philanthropist
- (C) Patriot
- (D) Linguist

Q25. Which is an example of a compound-complex sentence?

- (A) I was tired so I slept.
- (B) When she arrived, I was cooking and he was sleeping.
- (C) She opened the door and walked in.
- (D) I like coffee.

Q26. Choose the correct form:

“He behaves as if he _____ the principal.”

- (A) is
- (B) was
- (C) were
- (D) has been

Q27. Which sentence is in past perfect continuous tense?

- (A) I had worked all day.
- (B) I had been working all day.
- (C) I am working all day.
- (D) I was working all day.

Q28. Choose the incorrect pair:

- (A) Noun – happiness
- (B) Adjective – honesty
- (C) Verb – speak
- (D) Adverb – swiftly

Q29. Which is NOT a feature of formal writing?

- (A) Use of contractions
- (B) Objective tone
- (C) Structured format
- (D) Professional language

Q30. Phrase: "Under the weather" means:

- (A) Very happy
- (B) Feeling unwell
- (C) Extremely angry
- (D) Very confident

Q31. Fill in the blank:

"No one knows who _____ the window."

- (A) break
- (B) broke
- (C) has break
- (D) breaks

Q32. Choose the correct sentence:

- (A) Hardly had he finished the speech when the lights went off.
- (B) Hardly he had finished the speech when the lights went off.
- (C) Hardly had he finished the speech than the lights went off.
- (D) Hardly he finished the speech when the lights went off.

Q33. Identify the correctly spelt word:

- (A) Acheive
- (B) Recieve
- (C) Believe
- (D) Ocassion

Q34. Which sentence contains a relative pronoun?

- (A) I know what you did.
- (B) This is the boy who won the prize.
- (C) She asked me something.
- (D) He is very kind.

Q35. Choose the correct tag question:

"She never lies, _____?"

- (A) does she
- (B) doesn't she
- (C) did she
- (D) isn't it

Q36. The word "transparent" means:

- (A) Opaque
- (B) Clear
- (C) Dark
- (D) Hidden

Q37. Which of the following is an example of ellipsis?

- (A) He is poor but honest.
- (B) She can dance; he, sing.

- (C) He dances beautifully.
- (D) She is very talent.

Q38. Choose the correct formal expression:

- (A) What's up?
- (B) Gonna meet you
- (C) I look forward to your response.
- (D) Catch you later

Q39. Identify the correct change into indirect speech:

She said, "What a beautiful day!"

- (A) She exclaimed that day was beautiful.
- (B) She exclaimed that it was a beautiful day.
- (C) She said that day is beautiful.
- (D) She cried that the day is beautiful.

Q40. The word "Bilingual" means:

- (A) Speaking one language
- (B) Speaking two languages
- (C) Speaking many languages
- (D) Speaking no language

Q41. Choose the example of a formal letter purpose:

- (A) Inviting a friend for a party
- (B) Complaining about faulty goods
- (C) Writing a diary
- (D) Sending birthday wishes

Q42. Which line is used to end a formal letter?

- (A) Yours lovingly
- (B) Yours faithfully
- (C) Love
- (D) Bye

Q43. Which sentence is an example of euphemism?

- (A) He was brutally killed.
- (B) He passed away.
- (C) He was murdered badly.
- (D) He died painfully.

Q44. What is the tone of a business letter?

- (A) Humorous
- (B) Emotional
- (C) Professional
- (D) Casual

Q45. Which word is a conjunctive adverb?

- (A) And

- (B) But
- (C) However
- (D) Because

Q46. Choose the appropriate word:

“He is senior _____ me in experience.”

- (A) than
- (B) from
- (C) to
- (D) with

Q47. Which contains correct punctuation?

- (A) Yes I can do it.
- (B) Yes, I can do it.
- (C) Yes I, can do it.
- (D) Yes: I can do it

Q48. One word for “a speech given without preparation”:

- (A) Manuscript
- (B) Debate
- (C) Extempore
- (D) Dialogue

Q49. What type of letter is written to the editor of a newspaper?

- (A) Informal
- (B) Semi-formal
- (C) Formal
- (D) Personal

Q50. Choose the strongest word:

- (A) Angry
- (B) Furious
- (C) Annoyed
- (D) Upset

Subject : Mathematics

Q51 If $\sec A + \tan A = 1/7$, then $\sec A - \tan A =$

- (A) $50/7$
- (B) $2\sqrt{3}$
- (C) 7
- (D) 0

Q52 Find the sum of 12 terms of an A.P. whose n th term is given by $a_n = 3n + 4$

- (A) 262
- (B) 272

- (C) 282
- (D) 292

Q53 TSA of solid make by right circular cone and cylinder with same base and same height is:

- (A) $\pi r(l + 2r + h)$
- (B) $\pi r(l + 2h + r)$
- (C) $2\pi r(h + 2r)$
- (D) $\pi r l + 2\pi r h + 2\pi r^2$

Q54 If two positive integers A and B can be expressed as $A = xy^3$ and $B = x^4 y^2 z$; x, y being prime numbers then HCF (A, B) is

- (A) xy^2
- (B) $x^4 y^2 z$
- (C) $x^4 y^3$
- (D) $x^4 y^3 z$

Q55 If $2x$, $x + 10$, $3x + 2$ are in A.P., then x is equal to

- (A) 0
- (B) 2
- (C) 4
- (D) 6

Q56 $5\sqrt{3} - \sqrt{243} + \sqrt{48}$ is

- (A) a rational number
- (B) an irrational number
- (C) a natural number
- (D) a positive integer

Q57 If $\sin A - \cos A = 0$, then the value of $\sin^4 A + \cos^4 A$ is

- (A) 2
- (B) $\sqrt{2}/2$
- (C) $1/4$
- (D) $1/2$

Q58 If the zeroes of the quadratic polynomial $x^2 + (a + 1)x + b$ are 2 and -3, then

- (A) $a = -7$, $b = -1$
- (B) $a = 5$, $b = -1$
- (C) $a = 2$, $b = -6$
- (D) $a = 0$, $b = -6$

Q59 The zeroes of the quadratic polynomial $x^2 + 99x + 127$ are

- (A) both positive
- (B) both negative
- (C) one positive and one negative
- (D) both equal

Q60 A quadratic polynomial, whose zeroes are -4 and -5, is

- (A) $x^2 - 9x + 20$
- (B) $x^2 + 9x + 20$
- (C) $x^2 - 9x - 20$
- (D) $x^2 + 9x - 20$

Q61 If 1 is one of the zeroes of the polynomial $x^2 + x + k$, then the value of k is:

- (A) 2
- (B) -2

- (C) 4
- (D) -4

Q62 Graphically, the pair of equations $7x - y = 5$; $21x - 3y = 10$ represents two lines which are

- (A) intersecting at one point
- (B) parallel
- (C) intersecting at two points
- (D) coincident

Q63 If a pair of linear equations is consistent, then the lines will be

- (A) always coincident
- (B) parallel
- (C) always intersecting
- (D) intersecting or coincident

Q64 If $\triangle ABC \sim \triangle DEF$ and $\triangle ABC$ is not similar to $\triangle DEF$ then which of the following is not true?

- (A) $BC \cdot EF = AC \cdot FD$
- (B) $AB \cdot ED = AC \cdot DE$
- (C) $BC \cdot DE = AB \cdot EE$
- (D) $BC \cdot DE = AB \cdot FD$

Q65 If $x = a$, $y = b$ is the solution of the equations $x + y = 5$ and $2x - 3y = 4$, then the values of a and b are respectively

- (A) 6, -1
- (B) 2, 3
- (C) 1, 4
- (D) $19/5$, $6/5$

Q66 The sum of the digits of a two-digit number is 9. If 27 is added to it, the digits of the number get reversed. The number is

- (A) 27
- (B) 72
- (C) 45
- (D) 36

Q67. The equation $2x^2 + kx + 3 = 0$ has two equal roots, then the value of k is

- (A) $\pm\sqrt{6}$
- (B) ± 4
- (C) $\pm 3\sqrt{2}$
- (D) $\pm 2\sqrt{6}$

Q68. When the length of shadow of a vertical pole is equal to $\sqrt{3}$ times of its height, the angle of elevation of the Sun's altitude is

- (A) 30°
- (B) 45°
- (C) 60°
- (D) 15°

Q69. If the roots of $px^2 + qx + 2 = 0$ are reciprocal of each other, then

- (A) $p = 0$
- (B) $p = -2$
- (C) $p = \pm 2$
- (D) $p = 2$

Q70. The sum of the squares of two consecutive natural numbers is 313. The numbers are

- (A) 12, 13
- (B) 13, 14
- (C) 11, 12
- (D) 14, 15

Q71. Volume and curved surface area of a solid hemisphere are numerically equal. What is the diameter of hemisphere?

- (A) 6
- (B) 12
- (C) 3
- (D) 8

Q72. $5 \tan^2 A - 5 \sec^2 A + 1$ is equal to

- (A) 6
- (B) -5
- (C) 1
- (D) -4

Q73. If two tangents inclined at an angle 60° are drawn to a circle of radius 3 cm the length of each tangent is equal to

- (A) $3/2\sqrt{3}$ cm
- (B) 6 cm
- (C) 3 cm
- (D) $3\sqrt{3}$ cm

Q74. A cylinder and a cone are of same base radius and of same height. The ratio of the volume of the cylinder to that of the cone is

- (A) 2 : 1
- (B) 3 : 1
- (C) 2 : 3
- (D) 3 : 2

Q75. A piece of paper is in the shape of a semi-circular region of radius 10 cm. It is rolled to form a right circular cone. The slant height is

- (A) 5 cm
- (B) 10 cm
- (C) 15 cm
- (D) 20 cm

Q76. The fourth vertex D of a parallelogram ABCD whose three vertices are A(-2, 3), B(6, 7) and C(8, 3) is

- (A) (0, 1)
- (B) (0, -1)
- (C) (-1, 0)
- (D) (1, 0)

Q77. A plane is observed to be approaching the airport. It is at a distance of 12 km from the point of observation and makes an angle of elevation of 60° . The height above the ground of the plane is

- (A) $6\sqrt{3}$ m
- (B) $4\sqrt{3}$ m
- (C) $3\sqrt{3}$ m
- (D) $2\sqrt{3}$ m

Q78. PQ is a tangent drawn from a point P to a circle with centre O and QOR is a diameter of the circle such that $\angle POR = 120^\circ$, then $\angle OPQ$ is

- (A) 45°
- (B) 30°
- (C) 60°
- (D) 35°

Q79 A horse is tied to a peg at one corner of a square shaped grass field of side 15 m by means of a 7 m long rope. The area of that part of the field in which the horse can graze, is

- (A) 77 cm^2
- (B) $77/2 \text{ cm}^2$
- (C) 154 cm^2
- (D) $77/4 \text{ cm}^2$

Q80. The length of the minute hand of a clock is 14 cm. The area swept by the minute hand in 5 minutes is

- (A) 153.9 cm^2
- (B) 102.6 cm^2
- (C) 51.3 cm^2
- (D) 205.2 cm^2

Q81 The probability of getting exactly one head in tossing a pair of coins is

- (A) 0
- (B) 1
- (C) $1/3$
- (D) $1/2$

Q82 the probability of getting a red queen card from a well shuffled deck of 52 cards is

- (A) $1/26$
- (B) $1/4$
- (C) $1/13$
- (D) $3/13$

Q83 which of the following numbers lies between $\sqrt{2}$ and $\sqrt{3}$?

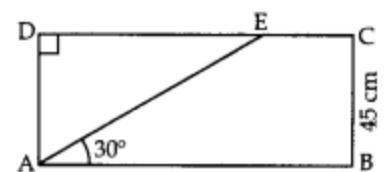
- (A) 1.7
- (B) 1.6
- (C) 1.5
- (D) 1.4

Q84. If in triangles ABC and DEF, $AB/DE = BC/FD$, then they will be similar, if

- (A) $\angle B = \angle E$
- (B) $\angle A = \angle D$
- (C) $\angle B = \angle D$
- (D) $\angle A = \angle F$

Q85. In given figure, the value of AE is

- (A) 90 cm
- (B) 45 cm
- (C) $45\sqrt{2} \text{ cm}$
- (D) $90\sqrt{2} \text{ cm}$



Q86. The points $(-4, 0)$, $(4, 0)$, $(0, 3)$ are the vertices of a

- (A) Right triangle
- (B) Isosceles triangle

- (C) Equilateral triangle
(D) Scalene triangle

Q87. For the following distribution

C.I.	0-10	10-20	20-30	30-40	40-50
f	20	30	24	40	18

the sum of lower limits of the modal class and the median class is

- (A) 20
(B) 30
(C) 40
(D) 50

Q88. For the following distribution

Cl	0-5	5-10	10-15	15-20	20-25
f	10	15	12	20	9

the difference of the upper limit of the median class and the lower limit of the modal class is

- (A) 0
(B) 5
(C) 10
(D) -5

Q89. If $y \sin 45^\circ \cos 45^\circ = \tan^2 45^\circ - \cos^2 30^\circ$, then $y = \dots$

- (A) $-1/2$
(B) $1/2$
(C) -2
(D) 2

Q90. A tangent is drawn from a point at a distance of 17 cm of circle $C(0, r)$ of radius 8 cm. The length of its tangent is

- (A) 5 cm
(B) 9 cm
(C) 15 cm
(D) 23 cm

Q91. In $\triangle ABC$, $DE \parallel AB$. If $CD = 3$ cm, $EC = 4$ cm, $BE = 6$ cm, then DA is equal to

- (A) 7.5 cm
(B) 3 cm
(C) 4.5 cm
(D) 6 cm

Q92. The $(n - 1)^{\text{th}}$ term of an A.P. is given by 7, 12, 17, 22, ... is

- (A) $5n + 2$
(B) $5n + 3$
(C) $5n - 5$
(D) $5n - 3$

Q93. What is degree of polynomial $p(x) = x^5 + 2x^4 + x + 6 / x^2 + 5x + 7$:

- (A) 0
- (B) 1
- (C) 2
- (D) 3

Q94. For roots of quadratic equation are real and distinct:

- (A) $D \leq 0$
- (B) $D \geq 0$
- (C) $D > 0$
- (D) $D = 0$

Q95. If $P(\frac{a}{3}, 4)$ is the mid-point of the line segment joining the points $Q(-6, 5)$ and $R(-2, 3)$, then the value of 'a' is

- (A) -4
- (B) -12
- (C) 12
- (D) -6

Q96. If $HCF(x, y) = a$ then $LCM(x, y)$ is:

- (A) b
- (B) xy/a
- (C) xya
- (D) xy

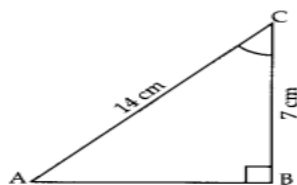
Q97. Perimeter of protractor where radius is r:

- (A) $2\pi r + r$
- (B) πr
- (C) $\pi r + r$
- (D) $\pi r + 2r$

Q98. The graph of $x = -2$ is a line parallel to the

- (A) x-axis
- (B) y-axis
- (C) both x- and y-axis
- (D) none of these

Q99. In given figure, the value of angle A is



- (A) 90°
- (B) 45°
- (C) 30°
- (D) 60°

Q100. $\frac{1}{\operatorname{cosec}^2 x} + \frac{1}{\sec^2 x} = ?$

- (A) $\tan x$
- (B) 0
- (C) 1
- (D) $\sec^2 x \cdot \operatorname{cosec}^2 x$