ALL KERALA BHAVAN'S SCHOLARSHIP EXAMINATION, NOVEMBER 2023

Class: X
Date: 28.11.2023

Marks:100
Time: 1½ hrs

GENERAL INSTRUCTIONS:

Read the instructions carefully before answering

1. Please fill up your Roll No. and class in the box provided on the OMR sheet.
2. This question booklet contains 50 questions and 5 Tie Breaker questions. All questions including 'Tie Breaker Questions' are mandatory. Tie Breaker questions will be evaluated only in case of a Tie.
3. Each question carries 2 marks.
4. Each question has 4 answer choices a,b,c,d.
5. For each question, select the best/correct option and darken the bubble completely against the corresponding question in the OMR sheet provided.
6. Use a blue/black ball point pen to darken the bubble.
7. Darken only one bubble against each question.
8. There will be no negative marking.

Choose the correct answer from the options given.

1. Pick out one word for 'lasting for a long duration'.
   a. Ephemeral   b. Momentary   c. Fugacious   d. Enduring

2. Report the following statement. Raj: "This idea is going to make me millions of dollar."
   a. Raj stated that that idea was going to make me millions of dollar.
   b. Raj stated that that idea was going to make him millions of dollar.
   c. Raj stated that that idea is going to make me millions of dollar.
   d. Raj stated that that idea is going to make him millions of dollar.

3. Fill in the blanks choosing the correct option. Neither the students nor the teacher ....aware of the surprise.
   a. were   b. are   c. was   d. have been

4. Identify the sentences with the incorrect use of articles.
   I. He usually drives at 70 kms a hour.   II. My new neighbour is a European.
   III. My uncle is a MLA who helps the needy ones.   IV. Rice costs fifteen rupees a kilogram.
   a. I & II   b. II & III   c. I & III   d. II & IV

5. "The wind whispered through the trees, beckoning me to its hidden secrets". The poetic device used in the line us.......
   a. Onomatopoeia   b. Simile   c. Personification   d. Allusion

6. Complete the given narrative by filling in the blank with the correct option:
   I was delighted when I _____ my junior school teacher
   a. ran away   b. ran into   c. ran down   d. ran in

7. Read the given sentence from the famous novel, 'Around the World in Eighty Days.' Identify the error and supply the correction in the sentence.

   Two thousand pounds in bank notes have been given to the mahout by Mr. Fogg for the upkeep of the elephant before he left India.
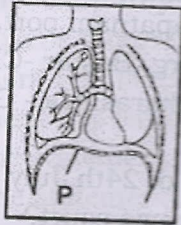
   Use the given format

Error	Correction
a. have been given	were given
b. for the upkeep	of the upkeep
c. have been given	have given
d. for the upkeep	in the upkeep

8. Solve: $3(81)^x + 3 = 9^{x+1} + 9^x$.

   a. 3, 2   b. $\pm\frac{1}{2}$ c. 4, 5   d. ± 1

9. Evaluate $(\sin^4\theta - \cos^4\theta + 1)\csc^2\theta$.

   a. 1   b. -2   c. 2   d. 0

10. Two dice are thrown simultaneously. Find the probability of getting a multiple of 2 on one die and a multiple of 3 on the other die.?

    a. $\frac{1}{3}$ b. $\frac{11}{36}$ c. $\frac{1}{4}$ d. $\frac{13}{36}$

11. A cone and a hemisphere have equal bases and equal volumes. Find the ratio of the height of the cone and hemisphere?

    a. 1:4   b. 2:1   c. 4:1   d. 2:1

12. Find the point which is equidistant from the points (0,0), (0,8),and (4,6).

    a. $(\frac{1}{2}, -4)$ b. $(-\frac{1}{2}, 4)$ c. $(\frac{1}{2}, 4)$ d. $(-\frac{1}{2}, -4)$

13. $\triangle ABC$ is right angle triangle in which A (0, 2), B (2, 0), the coordinates of C are

    a. (2, 2)   b.(1, 1)   c. (0, 0)   d. (-2,-2)

14. If $\triangle XYZ \sim \triangle MNP$, XY=6cm, MN=8cm and the perimeter of $\triangle MNP$ is 48 cm then the perimeter of $\triangle XYZ$ is

    a. 21cm   b. 27cm   c. 36cm   d. 48cm

15. A line intersects the y axis and x axis at the points P and Q respectively. If (2,-5) is the midpoint of PQ then the co-ordinates of P and Q are respectively

    a. (0,-5) and (2,0)   b. (0,10) and (-4,0)   c. (0,4) and (-10,0)   d. (0,-10) and (4,0)

16. An arc of a circle of length 5π cm and the sector it bounds has an area of 20π cm^2. Then the radius of the circle is

    a. 4cm   b. 8cm   c. 12cm   d. 16cm

17. A person gets out in the sunlight from a dark room. How does the pupil regulate and controls the light entering in the eye?

    a. The size of the pupil will decrease, and less light will enter the eye.
    b. The size of the pupil will remains same, but less light will enter the eye.
    c. The size of the pupil will remains same, but more light will enter the eye.
    d. The size of the pupil will decrease, and more light will enter the eye

18. The growth of tendrils in pea plants is due to

    a. Effect of light
    b. Effect of gravity
    c. Rapid cell division in tendrillar cells in contact with the support
    d. Rapid cell divisions in tendrillar cells that are away from the support.

19. Identify the basic salt from the following salts

    a. Sodium Carbonate   b.Ammonium chloride   c. Sodium nitrate   d. Potassium chloride

20. Reaction between X and Y, forms Compound Z. X loses electron and Y gains electron. Which of the following properties is not shown by Z?

    a. Has high melting point   b. Has low melting point
    c. Conducts electricity in molten state   d. Occurs as solid.

21. Reflex arc is formed by _____.

    a. Muscles $\rightarrow$ Brain $\rightarrow$ Recepto   b. Muscles $\rightarrow$ Spinal cord' $\rightarrow$ Receptor
    c. Receptor $\rightarrow$ Brain $\rightarrow$ Muscles   d. Receptor $\rightarrow$ Spinal cord $\rightarrow$ Muscles

22. Rays from Sun converge at a point 15 cm in front of a concave mirror. Where should an object be placed so that the size of its image is equal to the size of the object?

    a. 15 cm in front of the mirror.   b. 30 cm in front of the mirror.
    c. More than 30 cm in front of the mirror.   d. Between 15 cm and 30 cm in front of the mirror.

23. Which statement is incorrect for the reaction
$CuO + H_2 \rightarrow Cu + H_2O$
   a. CuO is reduced.
   b. H_2 is oxidized.
   c. CuO is reduced and H_2 is oxidized.
   d. H_2 is reduced.

24. The light coming from stars when it enters the earth's atmosphere, it experiences an increase in the density. So, the ray of light
   a. bends away from the normal
   b. bends towards the normal
   c. moves without deviation
   d. is absorbed by the atmosphere

25. What happens when structure P contracts and flattens?

   a. the air pressure in the lungs increases
   b. the rib cage moves downwards and inwards
   c. the volume of the thoracic cavity increases
   d. air is forced out of the lungs

26. Rahman is the poor agricultural labourer and needs a loan for cultivation on his small piece of land. Which of the following would definitely offer him a fair interest rate and flexible terms of credit?
   a. Village money lender.
   b. Co-operative society.
   c. Commercial bank.
   d. Rich land owner.

27. Why was reading of Manuscript not easy in India? Choose the appropriate reason from the following options.
   a. Manuscripts were highly cheap.
   b. Manuscripts were widely spread out.
   c. Manuscripts were written in English and Hindi.
   d. Manuscripts were fragile.

28. Arrange the following events in a chronological order.
   I. Formation of customs Union in Prussia.
   II. Piedmont and France defeated Austria.
   III. Fall of Napoleon
   IV. Establishment of young Italy
   a. IV , II , III , I
   b. III , IV , I , II
   c. II , III , IV , I
   d. II , III , I , IV

29. Which of these is not a constitutional provision for a secular state like India?
   a. No official religion for the state.
   b. Right to freedom of religion to all people.
   c. No discrimination on the basis of religion.
   d. Special status to majority group.

30. There are two statements marked as Assertion (A) and Reason (R) . Read both the statements and choose the correct option as your answer.
   Assertion(A): Marriage in India is included in the Concurrent list.
   Reason(R): Only the Union Government makes laws related to marriage.
   Options:
   a. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of the Assertion (A).
   b. Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of the Assertion (A).
   c. Assertion (A) is true, but Reason (R) is false.
   d. Assertion (A) is false, but Reason (R) is true.

31. Charan is over weight as his weight is 85 kg and his height is 180 cm. Find out his Body Mass Index (BMI) from the following options.
   a. 26.2 kg/m²
   b. 27.4 kg/ m²
   c. 28.4 kg/ m²
   d. 29.2 kg/ m²

32. Arrange the following in the correct sequence.
   i) Transporting cloth to the workshop
   ii) Sale in shops and showrooms
   iii) Spinning the yarn
   iv) Weaving of the fabric
   a. (i),(iv),(iii),(ii)
   b) (iii),(iv),(i),(ii)
   c. (iv),(i),(ii),(iii)
   d. iii),(iv),(ii),(i)

33. Seema approached a bank near to avail loan for her on business, as well as a self-help group, which is operating in her village. The bank rejected her loan application whereas the self-help group accepted to support her by providing the loan.

Which one of the following documents is required by the bank, but not required by the self-help group to approach loan application for her business.

    a. Application for loans   b. Arrangement letter

    c. Document on collateral   d. Demand promissory note and take delivery letter.

34. Identify the Iron ore belts in India from the following statement: This belt lies in Chhattisgarh and Maharashtra. Very high grade hematites are found in the famous bailadila range of hills. The range of hills comprises of 14 deposits of super hygrade hematite iron ore. Iron ore from these mines is exported to Japan and the South Korea via Visakhapatnam port.

    a. Odisha - Jharkhand belt   b. Durg- Bastar -Chandrapur belt

    c. Bellary- Chitradurga- Chikkamangaluru- Tumakuru belt   d. Maharashtra - Goa belt

35. What is the launch date for Chandrayaan-3 mission?

    a. 04 July 2023   b. 14th July 2023   c.13th July 2023   d. 24th July 2023

36. Who is India's first deaf lawyer to fight sign language case in Supreme court?

    a. Sarah Sunny   b. Saudamini Pethe   c. Mukul Rohtagi   d. Ricky Chopra

37. Name of the component of blood that fights infection.

    a. Red blood cells   b. Capillaries   c. White blood cells   d. Platelets

38. Who won 2023 Nobel Peace Prize?

    a. Nadia Murad   b. Juan Manuel Santos   c. Kailash Satyarthi   d. Narges Mohammadi

39. What does the logo of G20 Presidency of India given below reflect?

G20
भारत 2023 INDIA

i. Synergizing global efforts to expand access to scholarly scientific knowledge.

ii. India's national flower that reflects growth amid challenges.

iii. The Earth reflects India's pro-planet approach to life, one in perfect harmony with nature.

iv. It juxtaposes planet Earth with the lotus.

    a. i, ii, iii   b. iii, iv, i   c. iii, ii, i   d. ii, iii, iv

40. There are 5 machines that make 5 parts in 5 minutes. How long does it take to make 100 parts on 100 machines?

    a. 5   b. 10   c. 15   d. 30

41. Find the number logically follows the given series 2, 3, 5, 9, 17, 33, 65, ?

    a. 104   b. 129   c. 97   d.135

42. Raju's grandfather is 10 years more than five times Raju's age. Raju is 10 years old. His grandmother is four years younger than his grandfather. What is his grandmother's age?

    a. 60   b. 56   c.62   d. 58

43. Raman is 7 ranks ahead of Suman in a class of 39. If Suman's rank is seventeenth from the last, what is Raman's rank from the first?

    a. 14th   b. 15th   c. 16th   d. 17th

44. There is a lake on the surface of which water lilies float. The number of lilies doubles daily. If it takes 48 days to completely occupy the entire area of the lake, how many days will it take to occupy half the lake?

    a. 47   b. 46   c. 96   d. 108

45. A study revealed that a major part of the accidents involving two wheelers takes place when they are being driven at speeds above 50 km/hr. It is also observed that the two wheelers are driven

at this speed mostly on roads having scanty traffic. Which of the following can be concluded from the given paragraph?

a. Accidents do not take place because of heavy traffic.

b. It is not possible to drive two wheelers at speeds above 50 km/hr on the roads having heavy traffic.

c. Two wheelers drivers tend to become reckless while driving on roads having scanty traffic.

d. Most of the accidents involving two wheelers take place on roads having scanty traffic.

46. In each of the following questions, two statements numbered I and II are given. Choose the option which correctly analyses the statements.

I. The police authority has recently caught a group of house breakers.

II. The citizens group in the locality have started night vigil in the area.

a. Statement I is the cause and statement II is its effects.

b. Statement II is the cause and statement I is its effects.

c. Both the statements I and II are effects of independent causes.

d. Both the statements I and II are effects of some common cause.

47. Statement: Should women be given equal opportunity in the matter of employment in every field?

Arguments: I. Yes. They are equally capable

II. No. They have to do their household responsibilities

a. Only argument I is strong   b. Only argument II is strong

c. Both I and are strong   d. Neither I nor II is strong

48. In which year was Rahul born?

I. Rahul at present is 25 years younger to his mother.

II. Rahul's brother, who was born in 1964, is 35 years younger to his mother.

a. If the data even in both the statements together are not sufficient to answer the question.

b. If the data in both the statements together are needed.

c. If the data in statement I alone are sufficient to answer the question.

d. If the data in statement II alone are sufficient to answer the question.

49. In a certain code language, 'your attention please' is written as 'puw cuw zuw', 'kind attention' is written as 'muw zuw' and 'please pay attention' is written as 'puw zuw ruw'. How will 'pay' be written in that language?

a. puw   b. zuw   c. ruw   d. cuw

50. Six friends A, B, C, D, E, and F are seated in a circle facing centre. If F is between A and D, C is between E and B, E is not between D and C, and D is 2nd to the left of C; which one of the following is the position of D?

a. 2nd to the right of A   b. next to the right of B   c. 3rd to the left of B   d. 4th to the right of A

★   ★   **TIE BREAKER**   ★   ★

51. "All over the world there is a tendency in political parties towards the concentration of power in one or few leaders at the top".

Identify the challenge highlighted by the above statement to political parties.

a. Lack of internal democracy

b. Dynastic succession

c. Growing role of money and muscle power in parties

d. Parties do not offer a meaningful choice to the voters.

52. "A wise person should have money in their head, but not in their heart." When did the portrait of the Father of the Nation come in the currency notes of India?

a. 1947   b. 1950   c. 1969   d. 1970

53. How many cases do you need if you have to pack 112 pairs of shoes in to cases that each hold 28 shoes?

    a. 6   b. 7   c. 8   d. 9

54. Fate smiles ———— those who untiringly grapple with stark realities of life.

    a. with   b. over   c. on   d. round

55. The sum of 49 consecutive integers is 7^5. What is their median?

    a. 7   b. 7^3 c. 7^2 d. 7^4

BVM ELAMAKKARA