ALL KERALA BHAVAN'S SCHOLARSHIP EXAMINATION 2021-22

STD: IX   **Duration : 2hrs**

Max. Marks: 100

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) My aunt, who is __engineer works for __European company.

a) the, an   b) a, an

c) an, a   d)an, an

2) Timely action often prevents some great loss or harm that could occur in the future. 'Choose the apt proverb for the above explanation.

a) A stitch in time saves nine

b) Time and thinking tame the strongest grief

c) Time flies when you're having fun

d) Time heals all wounds

3) I'm **'on <u>cloud nine</u>** ' when I heard the news that the school will reopen soon. The underlined

phrase means

a) to be extremely sad or depressed

b) to be extremely happy or delighted

c) to fly an aeroplane

d) to take a short flight

4) Read the following passage and select the correct option

The police was completely clueless. No one could give them any lead in the case. Sahil returned
back to normal and looked at the video intently. He could see the number plate clearly….
a)   The word 'back' should be changed to the 'way'
b)   The word 'back' should be deleted
c)   The word 'clearly' should be deleted
 d)   The word 'completely' should be changed to 'finally'

5) Choose the correctly spelt word.
 a)   reccomendation
 b)   reccommendation
 c)   recomendation
 d)   recommendation

6) Choose the right option.

   Vijay's partner <u>threw cold water on</u> his scheme.

 a)   encouraged
 b)   discouraged
 c)   appreciated
 d)   disagreed

7) Tired of ***<u>playing second fiddle</u>***, she resigned and started her own company.

 a) to be happy, cheerful and healthy
 b). to do back seat driving
 c) to support the role and view of another person
 d) to reduce importance of one's senior

8) Which of the following equations represent a line parallel to Y axis

   a) 2y=5x   b) 2y=5   c)   2x=5   d) 2x + 3y= 5

9) One of the factor of $(16y^2-1)+ (1-4y)^2$ is

    a) $(4+y)$ b) $(4- y)$ c) $(4y + 1)$ d) $8y$

10) $\frac{x}{y} + \frac{y}{x} = -1$ $(x, y \neq 0)$ then the value of $x^3 - y^3$ is

    a)$1/2$ b)1 c)-1 d)0

11) The perimeter of a rhombus is 20 cm. If one of its diagonals is 6cm,

    then its area is

    a) $28cm^2$ b) $36cm^2$ c) $24cm^2$ d) $20cm^2$

12) Degree of zero polynomial is

    a) 0   b) 1   c) Any natural number   d) Not defined

13) If the measure of an angle is twice the measure of its supplementary

    angle, then the measure of the angle is

    a) $60°$ b) $90°$ c) $120°$ d) $130°$

14) A point $(x+2,x+4)$ lies in the first quadrant. Its mirror image with

    respect to x-axis is $(5,-7)$.The value of x is

    a)-9 b)3 c)-3 d)7

15) Find the value of $\sqrt[3]{216} - \sqrt[3]{125}$

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

16) If the area of an equilateral triangle is $16\sqrt{3}$ cm^2 ,then the perimeter of the triangle is

    a) 48 cm   b) 24 cm   c) 12 cm   d) 306cm

17) A Ball of mass m_1 travelling with a velocity u_1 collides with another Ball B of mass m_2 at rest. After collision the velocity of Ball A changes to v_1 and velocity of Ball B changes to v_2. If the momentum is conserved, which option correctly relates the momentum before and after the collision?

a) $(m_1.u_1) + (m_1.v_1) = (m_2.v_2)$
b) $(m_1.u_1) = (m_1.v_1) + (m_2.v_2)$
c) $(m_1.v_2) - (m_1.u_1) = (m_1.v_1)$
d) $(m_1.u_1) = (m_1.v_1) - (m_2.v_2)$

18) Himanshu wants to separate two photosynthetic pigments P and Q from the plant extract. He uses paper chromatography for the separation of these pigments and observes pigment P is separated first. What can be a likely reason for the same?

a) Pigment P has the low density.
b) Pigment Q has the high density.
c) Pigment P is more soluble in water and rises faster.
d) Pigment Q is more soluble in water and rises slower.

19)The formula of hydrogen carbonate of a metal M is $M(HCO_3)_2$. Give the formula of metal carbonate

a) MCO_3

b) M_2CO_3

c) $M(CO_3)_2$

d) M_3CO_3

20) During summer, leaves of a potted plant droop when the soil becomes dry. Which cell organelle makes the leaves droop?

a) Nucleus, as it stops making DNA
b) Cell wall, as it starts to shrink
c) Lysosome, as it releases the digestive enzymes
d) Vacuole, as it loses all the water

21) In desert plants, rate of water loss gets reduced due to the presence of:

    a) Cuticle   b) Stomata   c) Lignin   d) Suberin

22) What can you say about the motion of an object whose distance -time graph is a

    straight line parallel to the time axis?

    a) The object is at rest   b) The object has uniform speed

    c)The object undergoes uniform acceleration   d) None of the above

23) A sample of ammonia contains 9g of hydrogen and 42g of nitrogen. Another sample

    contains 5g of hydrogen. Calculate the amount of nitrogen in the second sample.

    a) 22.7g   b)24.2g   c) 23.3 g   d) 21 g

24) While doing work and running, you move your organs like hands, legs etc. Which
among the following is correct?
a) Smooth muscles contract and pull the ligament to move the bones.
b)Smooth muscles contract and pull the tendons to move the bones
c)Skeletal muscles contract and pull the ligament to move the bones
d) Skeletal muscles contract and pull the tendon to move the bones

25)The principal behind the rocket propulsion is

   a) Law of conservation of momentum

   b) Gravitational law

   c) Newton's second law

   d) Newton's third law .

26) The successor of Lenin was

   a) Stalin

   b) Kerenskii

   c) Trotskii

   d) Louis Blanc

27) When on election duty, under whose control does the government officers work?

   a) Central Government

   b) Election Commission

   c) District Magistrate

   d) District Court

28) Majuli is a riverine island located in the river

   a) Ganga   b) Brahmaputra   c) Yamuna   d) Kaveri

29) National Anthem of France is

   a) Vande Mataram

   b) Roget de L' Isle

   c) Le Moniteur Universal

   d) Marseilles

30) What is the aim of Sarva Siksha Abhiyan?

   a) To provide elementary education

   b) To provide elementary education to the rural poor

   c) To provide elementary education to all children in the age group 6-14 years.

   d) To provide elementary education to the urban poor.

31) The Northern plains has been formed by the interplay of three major river system namely

   a) The Indus- Ganga- Brahmaputra

   b) Yamuna- Mahanadi- Narmada

   c) Indus – Beas – Sutlej

   d) Narmada – Chambal – Indus

32) Assertion: In India, people elect their own representative.

Reason: India is a democracy.

a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion

b)Both Assertion and Reason are true but Reason is not the correct explanation of

Assertion

c) Assertion is true and Reason is false

d) Assertion is false but Reason is true

33) Which of the following is included in the secondary sector?

a) Poultry farming

b) Manufacturing

c) Transportation

d)Quarrying

34) Which of the following statements is false about the Third estate?

a) The third estate was made of the poor only

b) Within the Third estate some were rich and some were poor

c) Richer members of the Third estate owes the land

d) Peasants are obligated to serve in the army, or build roads.

35) Arribada is a term related to the mass migration of _____ species

a) Snake

b) Sea turtle

c) Frog

d) Spider

36) What is the name of the rare Martian Mineral, which has been recently

discovered in Antarctic ice?

a) Jarosite

b) Carnotite

c) Johannsenite

d) Ilmenite

37) Which sports personality is leading the UNICEF Global Vaccination Initiative?

a) Usain Bolt

b) Cristiano Ronaldo

c) David Beckham

d) Roger Federer

38) Where did Prime Minister Narendra Modi inaugurate 143 year old reconstructed

Heritage Marie   Building?

a) Chandigarh

b) Puducherry

c) Chennai

d) Jammu

39) Which country's border touches the maximum countries?

a) England

b)Russia

c) African

d) China

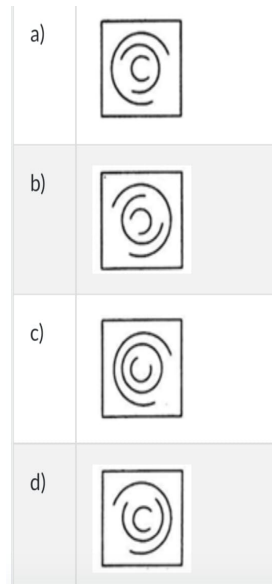40) Which of the following can be arranged into a 5-letter English word ?

a) HRGST   b) RILSA   c) TOOWT   d) WQRGS

41) Which one of the choices makes the best comparison ?

PEACH is to HPECA as 46251 is to

a)   15264   b) 14562   c) 14652   d) 62541

42) In the following figure, choose the odd one out

43) Which word does not belong with other?

a)   Index   b) Glossary   c) Chapter   d) Book

44) Complete the series 7,10,8,11,9,12 , ….

a)   7   b) 12   c) 10   d) 13

45) Pointing out to a man, Raj said, he is the son of the woman who is the mother of the husband of my mother. Who is the man to Raj?

   a) Grand Son   b) Son   c) Brother   d) Uncle

46) How many 6'S are there in the following sequence which are preceded by 8 but not immediately followed by 4.

   4 7 5 6 3 7 8 6 9 1 6 8 4 7 3 4 8 6 3 9 6 7 8 6 4 7 3 5 8 6 1

   a) 5   b) 4   c)3   d) 6

47) If 3 is called 9, 9 is called 27, 27 is called 81, 81 is called 243, 243 is called 729, 729 is called 2187. Then which of the following is the cube of 9?

   a) 243   b) 729   c) 2187   d) 27

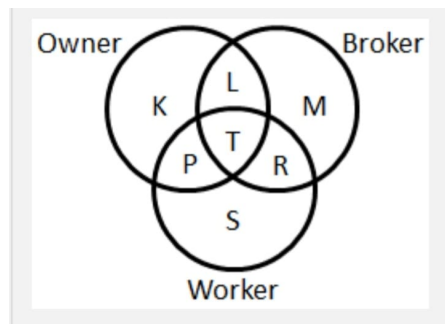48) Which of the following letter groups will replace the question mark (?) in the series given below

                 CY   DS   FN   IJ ?

   a)KJ   b)   MG   c) MH   d) LG

49) If in a certain code language, 'LAP' is coded as 'KMZBOQ' then how will 'NOTE' be   written in that language?

   a). MONPSUFD   b). MONPUSDF   c). MNOPSUDF   d). MONPSUDF

50) The diagram given below represents owner, broker and worker. Identify the region which   represents all the three ie. Owner, broker and worker.

   a)L   b)T   c)P   d)R

TIE-BREAKER

51) The day before yesterday I was 25. Next year I will be 28. This is true only one day in a
   year. What day is my Birthday?

   a) Dec 31   b) Feb 28
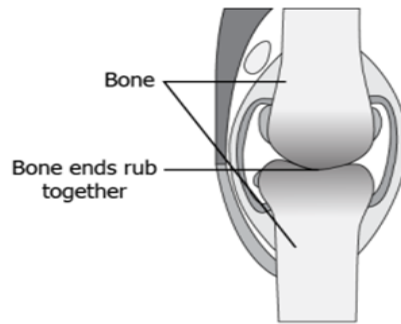   c) Jan 1   d) Jun 9

52) Which of the following state has launched the Annapurna Rasoi Yojna for providing
   quality meals to the weaker section at subsidized rates?
   a) Uttar Pradesh
   b) West Bengal
   c) Rajasthan
   d) Madhya Pradesh

53) Where is Kalahari desert situated?
   a) African   b)American   c)Asia   d)Europe

54) A student observes image of the knee bones of a person who is suffering from a condition
   called arthritis due to inflammation of joints. Which connective tissue can be corrected
   between the bones to ease the movement of joints?

   a) Blood as it contains proteins   b) Areolar tissue as it repairs the tissue
   c) Ligament as it joins the two bones easily   d) Cartilage as it smoothens surface of
   the bones

55) Complete this series of numbers :

   If 9 = 4 , 21 = 9 , 24 =10 , 8 =5 , 100 =7 , then 16 =

   a) 12   b) 6   c) 11   d) 7

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