

ALL KERALA BHAVAN'S
SCHOLARSHIP EXAMINATION 2019-20

STD: X

Duration : 2 hrs
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 answer sheet.
2. This question booklet contains 50 questions and 5 Tie Breaker questions. All questions including Tie Breaker Questions are mandatory. Tie Breaker questions would 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 answer sheet provided.
6. Use blue/black ball point pen to darken the bubble.
7. Darken only one bubble against each question.
8. There will be no negative marking.

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Choose the Correct answer from the options given.

1. A record of a person's own life and experiences (usually a famous person) is known as _____.
a) Journal b) Diary c) Log d) Memoir
2. The Ocean heaved a sigh – Find the poetic device used.
a) Simile b) Metaphor c) Personification d) Alliteration
3. The Chief Minister's decision to include his son in the cabinet, has set the _____ among the pigeons.
a) Cat b) Dog c) Squirrel d) Rat
4. Choose the correctly spelt word
a) Kaledoscope b) Kaliedoscope c) Kaleidoscope d) Khaleidoscope
5. She said, "Where were you yesterday?" – Change into reported.
a) She asked where I had been the previous day.
b) She asked if I was there the previous day.
c) She asked where I have been the previous day.
d) She asked where they were in the previous day.
6. Identify the clause of the underlined part.
What you told is fine with me
a) Adjective clause b) Noun clause c) Adverb clause
d) Prepositional clause
7. Fill in the blank using the correct form of the verb.
I, along with my brother _____ to the museum yesterday.
a) had gone b) went c) has gone d) have gone
8. Which of the following can be the n^{th} term of an AP ?
a) $3n^2+5$ b) $5n+4$ c) n^3-1 d) n^2+1
9. If $px^2+3x+q=0$ has two roots $x=-1$, $x=-2$, the value of $q-p$ is
a) -1 b) 1 c) 2 d) -2
10. The area of the triangle with vertices $(a,b+c)$, $(b,c+a)$ and $(c,a+b)$ is
a) $(a+b+c)^2$ b) $a+b+c$ c) 0 d) abc
11. A square and a rhombus are always
a) Similar b) Congruent c) Similar but not congruent
d) Neither congruent nor similar
12. If ΔABC is right angled at c , the value of $\cos(A+B)$ is
a) 0 b) 1 c) $\frac{1}{2}$ d) $\frac{\sqrt{3}}{2}$

13. If α and β are the zeros of the quadratic polynomial $p(x) = 2x^2 - 5x + 7$, Find the value of $\alpha^2 + \beta^2$
 a) $\frac{-3}{4}$ b) $\frac{1}{4}$ c) $\frac{-4}{3}$ d) $\frac{3}{4}$
14. If $2x - 3y = 7$ and $(a+b)x - (a+b-3)y = 4a+b$ represent coincident lines, then a and b satisfy the equation.
 a) $a+5b=0$ b) $5a+b=0$ c) $5a-b=0$ d) $a-5b=0$
15. The sum of LCM and HCF of two numbers is 186. If the LCM of these numbers is 174 more than their HCF, then the product of two numbers is
 a) 1080 b) 1800 c) 1008 d) 1180
16. If $x \tan 45^\circ \cot 60^\circ = \sin 30^\circ \operatorname{cosec} 60^\circ$, then the value of x is
 a) 1 b) $\frac{1}{4}$ c) 11 d) 6
17. Name the following compound $\text{CH}_3\text{-CH}_2\text{-CHO}$
 a) Propanol b) Propanal c) Propionic acid d) Propanone
18. A Sample of soil is mixed with water and allowed to settle. The clear supernatant solution turns the pH paper yellowish orange. Which of the following would change the colour of this pH paper to greenish blue?
 a) Lemon Juice b) Vinegar c) Common salt d) An antacid
19. Which of the following can undergo a chemical reaction?
 a) $\text{MgSO}_4 + \text{Fe}$ b) $\text{ZnSO}_4 + \text{Fe}$ c) $\text{MgSO}_4 + \text{Pb}$ d) $\text{CuSO}_4 + \text{Fe}$
20. The hormone that triggers the fall of mature leaves and fruits from the plant is due to
 a) auxin b) gibberellin c) Absciscic acid d) Cytokinin
21. The break down of pyruvate to give carbondioxide, water and energy takes place in
 a) Cytoplasm b) Mitochondria c) Chloroplast d) Nucleus
22. Two pea plants one with round green seeds (RRyy) and another with wrinkled yellow (rrYY) seeds produce F_1 progeny that have round, yellow (RrYy) Seeds. When F_1 plants are selfed, the F_2 progeny will have new combination of characters.
 Choose the new combination from the following.
 i) Round, Yellow ii) Round, Green iii) Wrinkled, Yellow iv) Wrinkled, Green
 a) i and ii b) iv and i c) ii and iii d) i and iii
23. Which physical quantity has its S-I unit Wb m^{-2}
 a) Magnetic flux b) Magnetic field c) induced emf d) Electric current
24. The focal lengths of four convex lenses A, B, C and D are 20 cm, 15 cm, 5 cm and 10 cm respectively. The lens having greatest power is:
 a) A b) B c) C d) D
25. Due to atmospheric refraction of sunlight, the time from sunrise to sunset is lengthened by about
 a) 6 minutes b) 2 minutes c) 4 minutes d) 5 minutes

26. Which of the following is an essential feature of double coincidence?
 a) Money system b) Barter system c) Financial system d) Credit system
27. The word 'Ethnic' signifies.
 a) different religions b) Social division of shared culture
 c) a violent conflict between opposite groups
 d) a careful circulation of gains and losses.
28. Which of the following countries is an example of "coming together federation"
 a) USA b) India c) Spain d) Belgium
29. Indian Wild Life Protection Act was implemented mainly to
 a) Protect certain animals
 b) Protect the remaining population of certain endangered species
 c) Protect the tigers d) Protect aquatic animals
30. An Indian who had taken part in three round table conference.
 a) Mahatma Gandhi b) Subash Chandra Bose c) Jawaharlal Nehru
 d) B.R. Ambedkar
31. Identify a crop which is a commercial crop in Haryana but a subsistence crop in Odisha.
 a) Rice b) Jute c) Sugarcane d) Rubber
32. Wood used for making furniture is
 a) An intermediary good b) A finished good c) A final good
 d) A raw good
33. Which of the following was the main reason behind the start of the Non Cooperation Movement in 1920.
 a) to fulfill the demand for Swaraj
 b) to surrender the titles vested by British
 c) to oppose the arrival of Prince of Wales
 d) to boycott the Civil services, Army, Police, Courts and Legislative council
34. Which of the following was not a provision of the act of 1956 passed in Srilanka?
 a) Sinhala is recognized as the only official language.
 b) Provinces were given autonomy.
 c) Buddhism was to be protected by the state.
 d) Sinhala were favoured in government jobs.
35. What is common to : Bombay duck, Panama hat, French fries
 a) Slot machines in Casino b) Sandwich c) Hotdogs d) Misnomers
36. The human mind sometimes perceives patterns even when none exist, a quirk we call Pareidolia. Based on Pareidolia Turing Test had devised a test called 'Y' employed by most websites now. Turing committed suicide recently. Identify 'Y'
 a) Doodle b) RVM c) Captcha d) Enigma

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37. The world health organization was found in 1948 and its headquarter is at
a) Lyon, France b) Geneva, Switzerland c) New York, U.S.A.
d) Gland, Switzerland
38. Who is the architect behind the iconic Indian Coffee House Restaurant in
Thampanoor, Thiruvananthapuram? He has been called the "Gandhi of
Architecture".
a) Larry Baker b) Laurie Baker c) Ashok B lall d) Yatin Pandya
39. Alexander the Great, Julius Caesar, Genghis Khan, Napoleon, Hitler,
Mussolini. All of them had a common phobia. What was it?
a) Claustrophobia b) Arachnophobia c) Ailurophobia d) Hydrophobia
40. If $Z=52$ and $ACT=48$, then BAT will be
a) 39 b) 41 c) 44 d) 46
41. If the seventh day of a month is 3 days earlier than Friday, what day will it be
on the nineteenth day of the month.
a) Sunday b) Monday c) Wednesday d) Friday
42. M and N have children A and B.
F is spouse of B.
D is child of F.
P is son in law of N.
K is kid of P.
Who is male child of M and N?
a) B b) A c) None d) Can't be determined
43. The certain code language COMPUTER is written as RFUVQNPC. How will
medicine be written in that code language?
a) MFEDJJOE b) EOJDEJFM c) MEEJDJOE d) EOJDJEFM
44. How many such pairs of digits are there on the number 421579368 each of
which has as many digits between them on the numbers as when they are
arranged on ascending order?
a) None b) One c) Two d) Three
45. When would it be better to do research in the library rather than on the
internet?
a) You are writing a report on recent U.S. Supreme Court decisions.
b) You want to know the historical performance of stock you are considering
purchasing.
c) You need to compare credit card interest rates.
d) You want to research out more about the old trails through the forest in
your town.

46. When scenario best represents a situation that has been decided by emotion alone?
- Sue hates the winter so even though she can't afford it, she takes a vacation to the Bahamas.
 - The school shuts down after a bomb threat.
 - Third quarter earnings for Marie's company were much higher than predicted.
 - Alice needs a new mixer, so she watches the newspaper advertisements and buys one when it goes on sale.
47. The goal of the study group was to investigate whether more people fishing in the area had.
- a positive impact on the local economy.
 - depleted the supply of fish.
 - made more work for marine biologists.
 - a negative impact on the health of the surrounding water.
48. Which is not a sound argument?
- Sabrina wanted to be a better skater. So she took extra lessons and practiced every day. Her skating improved so much that she entered a competition.
 - Yesterday, a black cat ran in front of me and later I lost my wallet. If I don't see that black cat today, I won't have any luck.
 - We had a storm last night with hurricane-strength winds and many trees were downed. There was a city wide power outage.
 - On a clear day, I can see the top of Murphy monument from my house. If its clear tomorrow I will be able to see the monument.
49. What is the real problem, as opposed to being an off shoot of that problem?
- Your banks charges Rs. 100 fee for overdrafts.
 - You wrote a check at the grocery store, but did not have the money to cover it.
 - Every month you spend more money than you earn.
 - Last month you paid Rs. 190 in overdraft charges to you bank.
50. What is the example of a hyperbole?
- The deck of our boat was as slippery as melted butter.
 - The bag of groceries weighs a ton.
 - Onto each life some rain must fall.
 - Mareo's lasagna is better than Mira's

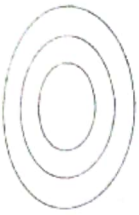
Tie breaker

1. If $\sin\theta + \sin^2\theta = 1$, then the value of $\cos^2\theta + \cos^4\theta =$
- a) 1 b) -1 c) 0 d) 2

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2. An electric kettle for use on a 230V supply is rated at 3000W. For safe working the cable connected to it should be able to carry at least.
a) 2A b) 5A c) 10A d) 15A
3. How much energy does a 100 W electric bulb transfer in 1 minute?
a) 100 J b) 600 J c) 3600 J d) 6000 J
4. Ctrl, Shift and Alt are called _____ keys.
a) Modifier b) Function c) Alphanumeric d) Adjustment
5. Which of the following Venn-diagram correctly illustrates the relation ship among the classes. Carrot, Food, Vegetables.

a)



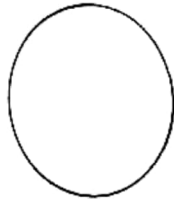
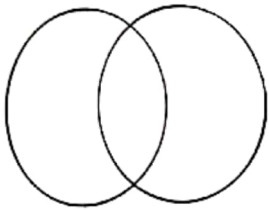
b)



c)



d)



- a) a b) b c) c d)

Rough Work