

ALL KERALA BHAVAN'S SCHOLARSHIP

BS0016

ALL KERALA BHAVAN'S SCHOLARSHIP EXAMINATION 2016-2017

Duration : 90 min

CLASS : X

Max. Marks: 100

GENERAL INSTRUCTIONS

READ THE INSTRUCTIONS CAREFULLY BEFORE ANSWERING THE QUESTIONS

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 are compulsory. Tie Breaker questions would be evaluated only in case of a Tie.
3. Each question has 4 options a,b,c,d.
4. For each question, select the best/correct option and darken the bubble completely against the corresponding question in the answer sheet provided.
5. Each question carries 2 marks.
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.

BVM ELAMAKKARA

1. The idiom 'in the black' means _____.
 a. financially sound b. ill health c. poor d. chaos
2. You'll find the poem _____ page 16.
 a. at b. on c. in d. over
3. Sue likes opera _____ Joe prefers jazz.
 a. Even though b. even if c. whereas d. although.
4. A _____ is a poem that consists of three quatrains and a couplet.
 a. ballad b. epic c. ode d. sonnet
5. Identify the poetic device used in the given line, "Give me the splendid silent sun"
 a. simile b. alliteration c. oxymoron d. metaphor
6. When we arrive at the station, we _____ the train.
 a. get down b. stand down c. get off d. step down
7. Who is known by the pseudonym 'Saki'?
 a. O Henry b. H H Munro c. A J Cronin d. Charles Dickens
8. 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
9. If the zeroes of the polynomial $x^3 - 3x^2 + x + 1$ are $p - q$, p and $p + q$, then the value of p is --.
 (a) -1 (b) +1 (c) $+\sqrt{2}$ (d) $-\sqrt{2}$
10. Rani has only Re. 1 and Rs.2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is Rs. 75, then the number of Re. 1 and Rs. 2 coins are ---- and ----- respectively.
 (a) 35, 15 (b) 35, 20 (c) 15, 35 (d) 25, 25
11. If S is point on the side PQ of ΔPQR such the $PS=QS=RS$, then
 (a) $PR \cdot QR = RS^2$ (b) $QS^2 + RS^2 = QR^2$ (c) $PR^2 + QR^2 = PQ^2$ (d) $PS^2 + RS^2 = PR^2$
12. 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
13. Consider the following frequency distribution. The upper limit of the median class is -----.

Class	0-5	6-11	12-17	18-23	24-29
frequency	13	10	15	8	11

- (a) 17 (b) 17.5 (c) 18 (d) 18.5
14. If the roots of $x^2 + kx + 12 = 0$ are in the ratio 1:3 then the value of k is ----.
 (a) ± 6 (b) ± 7 (c) ± 8 (d) ± 9

15. If S_n denotes the sum of the first n terms of an AP and $S_{2n} = 3S_n$, then $S_{3n} : S_n$ is -----.
- (a) 10:2 (b) 8:4 (c) 6:1 (d) 4:1
16. If the points A (3, 2) B (4, k) and C (5, 3) are collinear, then k is -----.
- (a) 2/3 (b) 3/2 (c) 2/5 (d) 5/2
17. A positive charge is moving towards an observer. The direction of magnetic field lines is
- (a) Clockwise (b) anticlockwise (c) right (d) left
18. A wire of resistance 5 is drawn out so that its length is increased to twice its original length. The value of its new resistance is
- (a) 10 (b) 20 (c) 15 (d) 45
19. Refractive index of glass with respect to water is $9/8$. What is the speed of light in water? Given speed of light in glass is 2×10^8 m/s.
- a) 2×10^8 m/s (b) 3×10^8 m/s (c) 2.25×10^8 m/s (d) none of these
20. The pH of drinking water should be
- a) Between 5.3 and 6.5 b) Less than 5.5 c) Between 5.5 and 9.5 d) Greater than 9.5
21. Ozone in the stratosphere is depleted by
- a) C_6F_6 b) $C_6H_4Cl_2$ c) CF_2Cl_2 d) C_6H_6
22. Which of the following is a dibasic acid?
- a) HCl b) H_3PO_4 c) HNO_3 d) H_2SO_4
23. Which of the following statement (s) is (are) true about heart?
- i) Left atrium receives oxygenated blood from different parts of the body while right atrium receives deoxygenated blood from lungs.
- ii) Left ventricle pumps oxygenated blood to different body parts while right ventricle pumps deoxygenated blood to lungs.
- iii) Left atrium transfers oxygenated blood to right ventricle which sends it to different body parts.
- iv) Right atrium receives deoxygenated blood from different parts of the body while left ventricle pumps oxygenated blood to different parts of the body.
- a) i b) ii c) ii & iv d) I & iii

24. The correct sequence of anaerobic respiration reaction in yeast is-

- a) Glucose cytoplasm pyruvate cytoplasm ethanol + Co₂
 b) Glucose cytoplasm pyruvate cytoplasm lactic acid
 c) Glucose cytoplasm pyruvate mitochondria lactic acid
 d) Glucose mitochondria pyruvate cytoplasm ethanol + Co₂

25. If a round, green seeded pea plant (RrYY) is crossed with wrinkled, yellow seeded pea plant

(rryy), the seeds produced in F₁ generation are-

- a) Round & green b) round & yellow c) wrinkled & green d) wrinkled & yellow

26. We can obtain per capita income of a country by calculating:

- (a) the total income of a person.
 (b) by dividing the national income by the total population of a country.
 (c) the total value of all goods and services.
 (d) the total exports of the country.

27. GDP is the total value of _____ produced during a particular year.

- (a) all goods and services.
 (b) all final goods and services.
 (c) all intermediate goods and services.
 (d) all intermediate and final goods and services.

28. Which of the following has an essential feature of double coincidence?

- (a) Money system (b) Barter system (c) Financial system (d) Banking system.

29. The word 'Ethnic' signifies:

- (a) different religions.
 (b) social division on shared culture.
 (c) a violent conflict between opposite groups.
 (d) a careful calculation of gains and losses.

30. Which of the following countries is an example of "coming together federation"?

- (a) U S A (b) India (c) Spain (d) Belgium.

31. "Feminist movement" are aimed at:

- (a) Liberty (b) Participation (c) Equality (d) Power.

32. Indian Wildlife 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.
33. Rooftop rainwater harvesting system in Rajasthan is known as:
(a) Guls (b) Tankas (c) Johads (d) Baolis.
34. Rearing of silk worms to produce raw silk is called _____
(a) Floriculture (b) Pisciculture (c) Sericulture (d) Viticulture
35. Who is the Governor of the Reserve Bank of India?
(a) Raghuram Rajan (b) Urjit Patel (c) Rangarajan (d) Jayasankar.
36. Which one among the following books is centered around "environment"?
(a) And Then One Day (b) Here I Stand (c) Silent Spring (d) The Late, Great Planet Earth.
37. Name the Scientific Research Station set up by India in the Arctic Region.
(a) Himadri (b) Bharati (c) Dakshin Gangotri (d) Maitri
38. Who is the chairman of NITI Aayog?
(a) Narendra Modi (b) Amitabh Kant (b) Sindhushree Khullar (d) Pranab Mukharjee
39. Headquarters of European Union is located in
(a) Milan (b) Brussels (c) Munich (d) Paris.
40. Abdul Kalam Island is located in
(a) Tamil Nadu (b) Andhra Pradesh (c) West Bengal (d) Odisha
41. International Yoga Day is celebrated on
(a) June 21st (b) July 21st (c) August 21st (d) October 21st
42. In which event did Sakshi Malik win bronze medal in Rio -Olympics
(a) Badminton (b) Wrestling (c) Gymnastics (d) Shooting
43. Who won the Vayalar Award in 2016
(a) K.R.Meera (b) U.K.Kumaran (c) S.Joseph (d) Balachandran Chullikkadu.
44. Insert the missing letters
D R I G
T R I D
D R I ---
(a) C (b) B (c) P (d) S

45. In a certain language FASHION is coded as FOIHSAN. How is PROBLEM coded in that code?
 (a) PELBORM (b) RPBOELM (c) PROBLEM (d) ROBLEMP.
46. There are deer and peacocks in a zoo. By counting heads there are 80. The number of their legs are 200. How many peacocks are there?
 (a) 30 (b) 50 (c) 20 (d) 60.
47. What is the next number in the series?
 18, 10, 6, 4, -----.
 (a) 9 (b) 5 (c) 3 (d) 1.
48. Name a single letter that can be suffixed to the following words to form new words.
 HAT, BAR, BAT, PIN, BATH.
 (a) B (b) D (c) A (d) E.
49. Identify which one of the given alternatives will be another member of the group of that class
 Lucknow, Patna, Bhopal, ----?
 (a) Mysore (b) Shimla (c) Pune (d) Indore.
50. Select from the alternatives an appropriate term that is identical to the term given in the question.
 A C E G
 (a) G H J N (b) I J L M (c) B D E F (d) O Q S U

TIE BREAKER QUESTIONS

1. Which work of fiction has the alternative title, 'The Kingdom of Nowhere'?
 (a) The Wasteland (b) Utopia (c) Animal Farm (d) The Capital
2. From a point A, which is at a distance of 13 cm from the centre O of a circle of radius 5cm, the pair of tangents AB and AC to the circle are drawn. Then the area of quadrilateral ABOC is -----cm².
 (a) 120 (b) 50 (c) 60 (d) 80
3. Which among the following diseases is a bacterial sexually transmitted disease?
 (a) AIDS & Gonorrhoea (b) Syphilis & Warts (c) Gonorrhoea & Syphilis (d) AIDS & Warts
4. Sardar Sarovar Dam is constructed on
 (a) River Krishna (b) River Mahanadi (c) River Kaveri (d) River Narmada
5. Which country opened the world's largest and highest glass bridge recently?
 (a) China (b) USA (c) Singapore (d) Japan