

ALL KERALA BHAVAN'SSCHOLARSHIP EXAMINATION NOVEMBER 2023

Class: XII (Science-Biology)

Date: 28.11.2023

Marks:100

Time: 1½ hrs

GENERAL INSTRUCTIONS:

| Read th | ıe i | nstructions | 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.

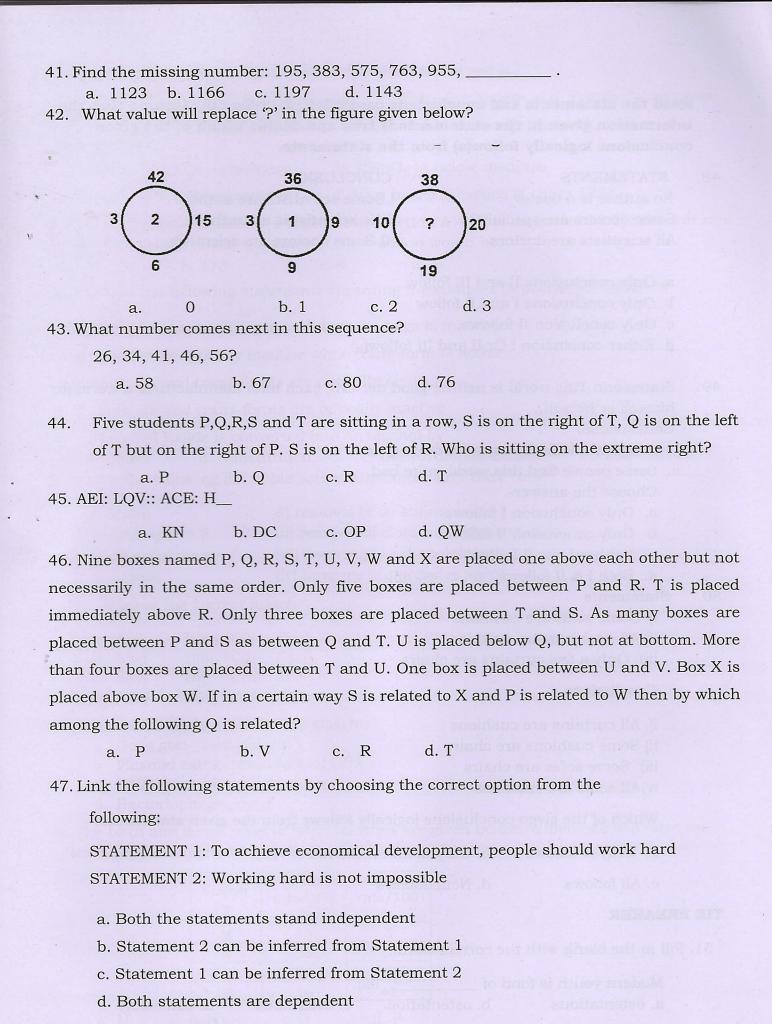
| 8. There will be no negative marking. | | |
|--|--|--|
| Choose the correct answer from the options given. | | |
| 1. "The pen is mightier than the sword" is an example of | | |
| a. pun b. metonymy c. oxymoron d. alliteration | | |
| 2. Choose the correctly spelt word. | | |
| a. manuoever b. manoeuvre c. maneouver d. maneuver | | |
| 3. Choose the correct meaning of the underlined idiom in the sentence: | | |
| 'After doing a lot of hard work the whole day, Harry hit the sack.' | | |
| a. Found the treasure b. Went to sleep | | |
| c. Won the jackpot d. Hit on the sack | | |
| 4. Which literary device is used in the sentence: "The world is my oyster"? | | |
| a. Simile b. Metaphor c. Hyperbole d. Onomatopoeia | | |
| 5. Identify one word for the following | | |
| One who is indifferent to culture or arts. | | |
| a. Primitive b. Illiterate c. Philistine d. Barbarian | | |
| 6. Choose the synonym of 'belligerent'. | | |
| a. benign b. argumentative c. amicable d. friendly | | |
| 7. Choose the correct option and complete the sentence. | | |
| How long have you known each other? | | |
| We've known each other since we at school. | | |
| a. have been b. are c. were d. had been | | |
| 8. Which one of the following options maintain a logical relation in the statement given. | | |
| Nostalgia is to anticipation as is to | | |
| a. future, present b. past, future | | |
| c. present, future d. past, present | | |
| 9. The astronomical telescope consists of objective and eyepiece. The focal length of the objective is | | |
| | | |
| and the cyclice | | |
| c. greater than that of the eyepiece d. five times shorter than that of eyepiece | | |

| | 10. The supply voltage to a room is 120 V. The resistance of the lead wires is 6 Ω . A 60W |
|-------|--|
| | bulb is already switched on. What is the decrease of voltage across the bulb, when a |
| | 240 W heater is switched on in parallel to the bulb? |
| t | a. zero volt b. 2.9 volt c. 13.3 volt d. 10.04 volt |
| | 11. In a series LCR circuit, resonance frequency depends on |
| * * * | |
| | $a.rac{L}{C}$ $b.\sqrt{LC}$ $C.rac{1}{\sqrt{LC}}$ $d.\sqrt{rac{L}{C}}$ |
| . 19 | C \sqrt{LC} |
| | 12. Light traveling from a transparent medium to air undergoes total internal reflection |
| | at an angle of incidence of 45° Then refractive index of the medium be may |
| | |
| | a.1.5 b.1.3 c. 1.1 $d.\frac{1}{\sqrt{2}}$ |
| | 13. 4eV is the energy of the incident photon and the work function is 2 eV. The stopping |
| | potential will be |
| | a. 2 V b. 4 V c. 6 V d. $2\sqrt{2}$ V |
| | 14. A sensitive magnetic instrument can be shielded very effectively from outside magnetic |
| | fields by placing it inside a box of: |
| | a. Teak wood. b. Plastic material |
| | c. Soft iron of high permeability. d. A metal of high conductivity |
| | 15. Young's double slit experiment is performed with blue light (wavelength = 460 nm) and |
| | green light (wavelength = 550 nm) respectively. If 'Y' is the distance of 4th maximum |
| | from the central fringe, then |
| | a. $Y_B = Y_G$ b. $Y_B > Y_G$ c. $Y_G > Y_B$ d. $Y_B/Y_G = 550/460$ |
| | 16. The drift velocity of free electrons in a conductor is 'v', when a current 'I' is flowing in it. |
| | If, the radius of the conductor and the current through it is doubled, then drift velocity |
| | will be |
| | a. v/4 b. v/2 c. 2v d. 4v |
| | 17. The first line of the Lyman series in a hydrogen spectrum has a wavelength of 1210 Å. |
| | The corresponding line of a hydrogen like atom of Z=11 is equal to: |
| | a. 4000Å. b. 100Å. c. 40Å. d. 10Å. |
| | 18. Vapour pressure of a pure liquid X is 2 atm at 300 K. It is lowered to 1 atm on |
| | dissolving 1 g of Y in 20 g of liquid X. If the molar mass of X is 200, what is the molar |
| | mass of Y? |
| | a. 20 b. 50 c. 100 d. 200 |
| | 19. Chromate ion (yellow) changes to dichromate ion (orange) in pH= x and vice versa in |
| | pH = y. Identify x and y |
| | a. 6 and 8 b. 6 and 5 c. 8 and 6 d. 5 and 6 |
| | 20. Consider the reaction |
| | CH3CH2CH2Br +NaCN→ CH3CH2CH2CN + NaBr |
| | The reaction will be fastest in |
| | a. Ethanol b. Methanol c. Acetone d. Water |
| | 21. The ketone C ₆ H ₅ COCH ₃ will not be formed by |
| | a. reaction of benzene and acetyl chloride in the presence of AlCl ₃ |
| | b. reaction of acetonitrile with phenylmagnesium bromide in ether followed by hydrolysis |
| | c. treatment of propylchloride with dibenzyl cadmium. |
| | d. addition of water to pheny active of the presence of mercuric sulphate and |
| | THE TAXABLE PARTIES AND ADDRESS OF THE PARTIES A |

- 22. When phenol reacts with bromine water, what is the result? a. Brown Liquid b. Colourless Gas c. White Precipitate d. Purple Colouration 23. Which of the following reagents cannot, be used to oxidise primary alcohols to aldehydes? a. CrO₃ in anhydrous medium b. KMnO₄ in acidic medium c. Pyridinium chlorochromate d. Heat in the presence of Cu at 573K 24. When the concentration of a reactant in reaction $A \rightarrow B$ is increased by 8 times but rate increases only 2 times, the order of the reaction would be: a. 2 b. 1/3c. 4 25. Which of the following statements regarding the complex [M(AA)₂A₂] is correct? a. cis-form is optically active while trans-form is inactive b. cis-form is optically inactive while trans-form is active c. Both cis-and trans-forms are optically active d. Both cis-and trans-forms are optically inactive 26. The alkyl halide is converted into an alcohol by c. Dehydrohalogenation a. Addition b. Substitution d.Elimination 27. Match the following list of bio active substances and their roles A Statin (I) removal of oil stains (ii) removal of clots from blood vessels B Cyclosporin A C. Streptokinase (iii) lowering blood cholesterol (iv) immune suppressive agent D. Lipase Choose the correct match B(iii) C(I) a. A(ii) D(iv) b. A(iv) C(I) B(ii) D(iii) c. A(iv) B(I)C(ii) D(iii)
 - d. A(iii) B(iv) C(ii) D(I)
- 28. Which of these is not correctly matched
 - a. Gene gun _biolistic gun
 - b. Plasmid extra chromosomal DNA
 - c. DNA ligase biological scissors
 - d. Bacteriophage _virus
- 29. The birth and death rates of four countries are given below. Which one will have the least population growth rate?

| Countr | Birth rate/100 0 | Death rate/100 0 |
|--------|------------------------|------------------------|
| M | 15 | 5 |
| N | 25 | 10 |
| 0 | 35 | 18 |
| P | 48 | 41 |

| a. GnRH stimulates secretion of FSH and LH b. LH stimulates the Leydig cells to secrete androgen c. FSH acts on the Sertoli cells and stimulate spermiogenesis d. None of these. 31. Consider the following statements in eukaryotes (i) RNA polymerase I transcribes rRNA (ii) RNA polymerase II transcribes snRNAs (iii) RNA polymerase III transcribes hnRNA (iv) RNA polymerase III transcribes hnRNA (iv) RNA polymerase III transcribes hnRNA a. (i) and (ii) are correct b. (i) and (iii) are correct c. (i), (ii) and (iv) are correct d. (i) and (iv) are correct 32. Acrosome contains a. mitochondrial enzymes. b. lysosomal enzymes. c. respiratory enzymes. d. Golgi enzymes. 33. A man whose father has hemophilia marries a woman whose mother was also haemophilic. They have their first child as a daughter. What are the chances that this child would be affected by hemophilia? a. 25% b. 100% c. 50% d. 0% 34. What will be the sequence of anticodon in the given stretch of DNA 3' - ATGCATGCATGC-5' Template strand 5' -TACGTACGTACG-3' Coding Strand a. UAC GUA CGU ACG b. AUG CAU GCA UGC c. ATG CAT GCA TGC d. UAC GUA CGU ACG 35. In an angiospermic plant the synergids contain 6 chromosomes. The chromosome number in its aleurone layer is a. 6 b. 12 c. 18 d. 24 36. 'Dragonfly' the recent project of NASA, was launched to explore which planet? a. Mars b. Jupiter c. Saturn d. Venus 37. Which Indian player has recorded the maximum number of wins in Davis Cup? a. Mahesh Bhupathi b. Leander Paes c. Sumit Nagal d. Rohan Bopanna 38. What is the name of India's first solar roof cycling track inaugurated in Hyderabad in October 2023? a. Eco Pedal b. Healthway c. Sun Cycle d. Solar Ride 39. 'Red Light On Gaadi Off' campaign was launched by the government of | 30. Which of the following statement is incorrect? | | | | | | |
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| a Uttar Pradesh h Harvana c Delhi d Puniah | a. Uttar Pradesh b. Haryana c. Delhi d. Punjab | | | | | | |
| | | | | | | | |
| 40. The President of which Asian country launched the country's first carbon emission credit trading? | | | | | | | |
| a. Malaysia b. China c. India d. Indonesia | | | | | | | |



BVM ELAMAKKARA

Read the statements and conclusions carefully(Qn.48-Qn.50). Assume that the information given in the statements is true and decide which of the given conclusions logically follow(s) from the statements.

| | onclusions logically follow(s) from | the statements. |
|-----|---|--|
| 48. | STATEMENTS No author is a doctor | CONCLUSION I Some scientists are authors |
| | Some doctors are specialists | II No scientist is an author |
| | All scientists are doctors | III Some doctors are scientists |
| | | |
| | a. Only conclusions II and III follow | |
| | b. Only conclusions I and II follow | |
| | c. Only conclusion II follows | |
| | d. Either conclusion I Or II and III f | follow(s) |
| 49. | Statement: This world is neither go | od nor evil, each man manufactures a world for |
| | himself or herself. | |
| | Conclusions: | |
| | i. Some people find this world quite | |
| | ii. Some people find this world quite | e bad. |
| | Choose the answer- | |
| | a. Only conclusion I follows | |
| | b. Only conclusion II followsc. Neither I nor II follows | |
| | d. Both I & II follows | |
| 50. | Statements | necessarily in the same erdel. Only five boxes |
| 00. | i) Some sofas are cushions | |
| | ii) All cushions are curtains | |
| 1 | iii) Only a few curtains are chair | S |
| | Conclusions | Algered above box W. If in a certain way S is retar |
| | i) All curtains are cushions | |
| | ii) Some cushions are chairs | |
| | iii) Some sofas are chairs | |
| | iv)All sofas are cushions | To laid, the igily wine statements by choosing the |
| | Which of the given conclusions le | ogically follows from the given statements? |
| | a. Only iv follows b. Only iii | and iv follows |
| | c. All follows d. None fol | llows |
| TIE | BREAKER | a. Both the statements mand independent |
| 51 | . Fill in the blank with the correct wo | rd. 12 months year to a second and decident and the real field and the |
| | Modern youth is fond of | life. |

52. A constant current still ving through a Ackerkid Ar in rod is inserted in the

a. ostentatious

b. ostentation c. ostentious d. ostensibly

solenoid along its axis. Which of the following quantities will not increase?

- a. The magnetic field at the centre
- b. The rate of heating
- c. The magnetic flux linked with the solenoid
- d. The self inductance of the solenoid
- 53. The halide which undergoes nucleophilic substitution most readily is
 - a. p-H₃CC₆H₄Cl
- b. o-H₃COC₆H₄Cl
- c. p-ClC₆H₄Cl
- d. p-NO₂C₆H₄Cl
- 54. Human races are not considered as different species as they
 - a. can potentially interbreed.
 - b. cannot potentially interbreed.
 - c. cannot produce fertile young ones.
 - d. cannot produce hybrids.
- 55. Waheeda Rahman won this year's Dadasaheb Phalke Award. Who was its first recipient?
 - a. Nargis Dutt
- b. Lata Mangeshkar
- c. Devika Rani
- d. Sivaji Ganesan
