

# রেনেসাঁ of Aliah

Question Booklet No.

580086

Question Booklet Series :

B

AUAT — 2022

## 2-Year M.Sc. in Chemistry (P12) ( TEST BASED ON MCQ )

Full Marks : 100

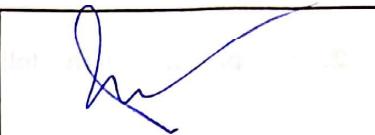
Duration : 2 Hours

Roll No. of the Candidate : 890151202057

Date of Examination : 24 - 07 - 2022

Name of Examination Centre : ALIAH UNIVERSITY, NEWTOWN

Signature of the Candidate : M. A. Manim



Signature of the Invigilator on  
Verification

### IMPORTANT INSTRUCTIONS

Candidates should read the below instructions carefully and follow them accordingly.

1. The Question Booklet has paper seal pasted on it. Please do **NOT** open the Question Booklet until you are asked to do so by the Invigilator.
2. The Candidates must check immediately after breaking the seal that the Question Booklet contains **100 Multiple Choice Questions** in two parts (Part—I and Part—II).
3. Answer of questions of Part—I and Part—II both will have to be given on the **OMR Answer Sheet** provided for this purpose. Fill up the necessary fields that are intended for you by writing and/or shading appropriately. Otherwise the **OMR Answer Sheet** **cannot** be evaluated and will liable to be rejected. Question numbers progress from **1** to **100** continuously with alternative answers being shown as [A], [B], [C] and [D] for each question. Record your response by completely darkening the corresponding bubble. While responding, you should consider the best alternative answer and shade only one bubble with **black/blue ball point pen only**. For each correct response you will be awarded **1** mark. There will be negative marking for wrong responses. For each wrong response, **-0.25** mark will be awarded. Multiple responses against one **MCQ** will be treated as a wrong response.
4. On leaving the examination hall, candidates must submit the OMR Answer Sheet. They are allowed to keep the Question Booklet with them.
5. **OMR Answer Sheet** will be processed by electronic means. Any untoward/irrelevant remarks, folding or putting stray notes on the answer sheet, any damage to the answer sheet will lead to the rejection of the same and the sole liability shall remain with the candidate.
6. Rough Work may be done at the end of the Question Booklet.
7. No Candidate will be allowed to leave the examination hall before 60 minutes of the commencement of examination. Candidates leaving the examination hall before conclusions of the examination will not be allowed to take the Question Booklet with them while going outside the examination hall.
8. Use of any Electronic device like Mobile, Programmable Calculator etc. is strictly prohibited.

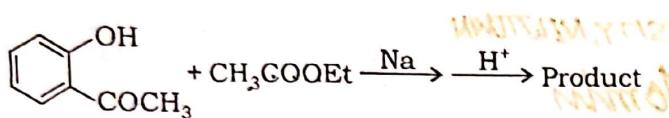
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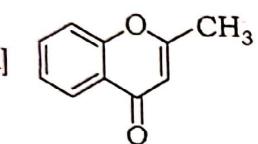
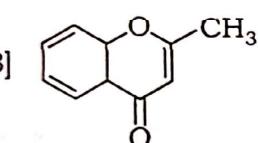
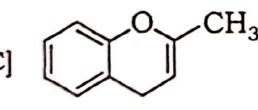
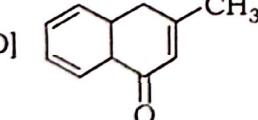
( PART—I : Core Subject )

1. Which of the following f.c.c. structure contains cations in alternate tetrahedral voids?

- [A] NaCl
- [B] ZnS
- [C] Na<sub>2</sub>O
- [D] CaF<sub>2</sub>

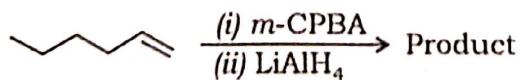
2. The product of the following reaction is



- [A] 
- [B] 
- [C] 
- [D] 

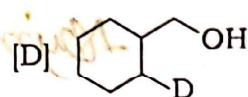
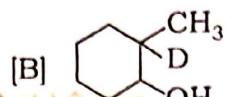
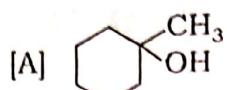
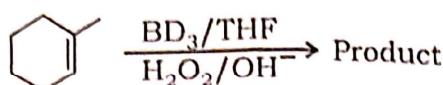
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3. The product of the following reaction is



- [A] racemic mixture
- [B] hexan-2-ol
- [C] hexan-1-ol
- [D] hexane

4. Here the product is



5. In which of the following reactions, amide is reduced with one carbon less than starting material?

- [A] Lossen rearrangement
- [B] Beckmann rearrangement
- [C] Dieckmann rearrangement
- [D] Hofmann rearrangement

6. Consider the following statements :

- I., Claisen condensation gives  $\beta$ -keto ester.
- II. Diels-Alder reaction is a [2+2] cycloaddition reaction.
- III. Wolff-Kishner reduction is carried out with zinc amalgam and HCl.
- IV. Beckmann rearrangement is the acid-catalysed conversion of ketoximes to amides.

Select the **correct** statements.

- [A] I, III
- [B] I, IV
- [C] I, II
- [D] III, IV

7. When cyclohexanone oxime is treated with  $H_2SO_4$ , the ring expansion takes place which is due to

- [A] Curtius reaction
- [B] Beckmann rearrangement
- [C] Favorskii rearrangement
- [D] Claisen rearrangement

8. Which one has the largest frequency?

- [A] X-ray
- [B] Infrared ray
- [C] Visible ray
- [D] Microwave

9. For a particle of mass  $m$  in a one-dimensional box of length  $l$ , what is the average of momentum  $p_x$  for the ground state?

- [A] zero
- [B]  $h/2l$
- [C]  $h/l$
- [D]  $h/2\pi l$

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10. How many signals do the unsaturated ketone  $(CH_3)_2CHCH_2C(O)CH=CH_2$  have in  $^1H$  NMR and  $^{13}C$  NMR?

- [A] Five  $^1H$  signals and six  $^{13}C$  signals
- [B] Six  $^1H$  signals and six  $^{13}C$  signals
- [C] Six  $^1H$  signals and seven  $^{13}C$  signals
- [D] Five  $^1H$  signals and seven  $^{13}C$  signals

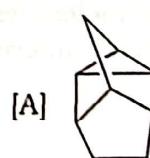
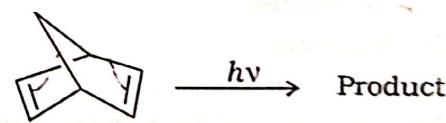
11. A gas can be liquefied by increasing pressure :

- I. Above the critical pressure only
- II. Only when the temperature of the enclosed gas is below the critical temperature
- III. Only when the volume of the enclosed gas is below the critical volume

Which of the above statement(s) is/are correct?

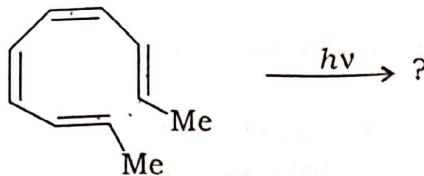
- [A] I, II
- [B] II only
- [C] III only
- [D] II, III

12. What will be the product of the following reaction?



- [D] None of the above

13. The following tetraene upon photolysis gives :



- [A]
- [B]
- [C]
- [D]

14. Ozone layer of stratosphere requires protection from indiscriminate use of
- [A] pesticides
  - [B] balloons
  - [C] atomic explosion
  - [D] aerosols and high flying jets

15. Which of the following molecules can show pure rotational microwave spectrum?

- [A]  $N_2$  *রেনেসাঁ of Aliah*
- [B]  $CO_2$
- [C]  $HCl$
- [D]  $OCS$

16. Green chemistry aims to
- [A] grow trees around chemical factories
  - [B] reduce environmental degradation.
  - [C] reduce costs of chemical process.
  - [D] Both [B] and [C]

17. IE of an element does not depend on its

- [A] nuclear charge
- [B] penetration effect
- [C] shielding effect
- [D] electron neutrality

18. The correct decreasing order of ionic radius is

- [A]  $F^- > O^{2-} > N^{3-} > C^{4-}$
- [B]  $N^{3-} > O^{2-} > F^- > C^{4-}$
- [C]  $C^{4-} > N^{3-} > O^{2-} > F^-$
- [D]  $O^{2-} > F^- > C^{4-} > N^{3-}$

19. The rate constant of a first order reaction at  $27^\circ C$  is  $10^{-3} \text{ min}^{-1}$ . The temperature coefficient of this reaction is 2. What is the rate constant (in  $\text{min}^{-1}$ ) at  $17^\circ C$  for this reaction?

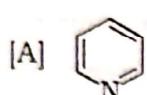
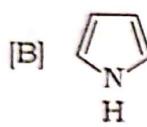
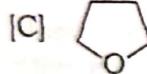
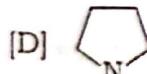
- [A]  $10^{-3}$
- [B]  $5 \times 10^{-4}$
- [C]  $-2 \times 10^{-3}$
- [D]  $10^{-2}$

20. Langmuir model of adsorption of a gas on a solid surface is

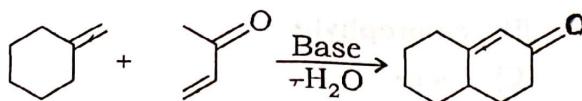
- [A] the adsorption at a single gas site on the surface may involve multiple molecules at the same time
- [B] the mass of gas striking a given area of surface is proportional to the pressure of the gas
- [C] the mass of gas striking a given area of surface is independent of the pressure of the gas
- [D] None of the above

21. Smoke has generally blue tinge. It is due to

- [A] scattering
- [B] coagulation
- [C] Brownian motion
- [D] electro-osmosis

22. The molar conductance at infinite dilution of HCl, NaCl and NaZ are  $425 \times 10^{-4}$ ,  $125 \times 10^{-4}$  and  $80 \times 10^{-4}$  respectively. The specific conductance of 0.001 M aqueous solution of HZ is  $3.8 \times 10^{-3} \text{ S m}^{-1}$ . Calculate the dissociation constant of HZ.
- [A]  $2.22 \times 10^{-5} \text{ mol dm}^{-3}$   
 [B]  $1.11 \times 10^{-5} \text{ mol dm}^{-3}$   
 [C]  $1.11 \times 10^{-3} \text{ mol dm}^{-3}$   
 [D]  $2.22 \times 10^{-3} \text{ mol dm}^{-3}$
23. Among the following compounds, the most basic compound is
- [A]   
 [B]   
 [C]   
 [D] 
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24. Which alkyl halide undergoes E2 elimination at the fastest rate?
- [A]   
 [B]   
 [C]   
 [D] 
25. Silicon is an important constituent of
- [A] amalgam  
 [B] chlorophyll  
 [C] rock  
 [D] haemoglobin
26. The hydrogen ion concentration of a slightly acidic water solution can be represented by
- [A]  $10 - \text{pOH}$   
 [B]  $14 - \text{pOH}$   
 [C]  $K_w/\text{pOH}$   
 [D]  $10 - (14 - \text{pOH})$
27. Which has the least molar solubility in  $\text{H}_2\text{O}$ ?
- [A] LiCl  
 [B] NaCl  
 [C] KCl  
 [D] CsCl
28.  $\text{BF}_3$  on hydrolysis forms
- [A]  $\text{H}_3\text{BO}_3$   
 [B]  $\text{HBF}_4$   
 [C] Both [A] and [B]  
 [D] None of the above
29. Pyridine undergoes electrophilic substitution with fuming  $\text{H}_2\text{SO}_4$  at  $350^\circ\text{C}$  to give
- [A] 2-pyridinesulfonic acid  
 [B] 3-pyridinesulfonic acid  
 [C] 4-pyridinesulfonic acid  
 [D] None of the above
30. Addition of  $\text{Br}_2$  to methyl acetylene yielding trans-1,2-dibromopropane is
- [A] stereoselective reaction  
 [B] stereospecific reaction  
 [C] stereoselective as well as stereospecific reaction  
 [D] None of the above

31. The following reaction is an example of



- [A] Dieckmann condensation
- [B] Robinson annulation
- [C] Stobbe condensation
- [D] Aldol condensation

32. Which one of the following is square planar?

- [A]  $\text{XeF}_4$
- [B]  $\text{XeO}_4$
- [C]  $\text{XeO}_3\text{F}$
- [D]  $\text{XeO}_3\text{F}_2$

33. Which one is paramagnetic as well as coloured ion?

- [A]  $\text{Cu}^+$
- [B]  $\text{Cu}^{2+}$
- [C]  $\text{Ti}^{4+}$
- [D]  $\text{Sc}^{3+}$

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34.  $\text{MnO}_4^-$  is coloured due to

- [A] LMCT
- [B] MLCT
- [C]  $d-d$  transition
- [D] Both [A] and [C]

35. Among the following complexes, optical activity is possible in

- [A]  $[\text{Co}(\text{H}_2\text{O})_2(\text{NH}_3)_2\text{Cl}_2]$
- [B]  $[\text{Co}(\text{NO}_2)(\text{NH}_3)_3\text{Cl}]^+$
- [C]  $[\text{Co}(\text{CN})_5\text{NCl}]^-$
- [D]  $\text{Cr}(\text{H}_2\text{O})_4\text{Cl}_2$

36. Zr and Hf have similar atomic and ionic radii because

- [A] both are in same group
- [B] of diagonal relationship
- [C] of lanthanide contraction
- [D] they have similar chemical properties

37. The number of metal-metal bond in  $\text{Os}_4(\text{CO})_{15}$  is

- [A] 4
- [B] 5
- [C] 6
- [D] 8

38. The property measured in thermogravimetric analysis (TGA) is

- [A] change in weight
- [B] rate of change in weight
- [C] heat evolved or absorbed
- [D] change of temperature

39. The  $R_f$  value is very sensitive to

- [A] condition of sheet treatment
- [B] condition of development
- [C] development techniques and parameters
- [D] All of the above

40. Exchange capacity of weak acid cation exchange increases with

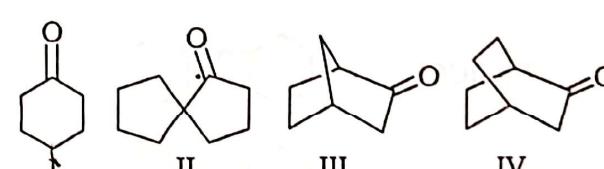
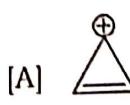
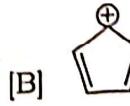
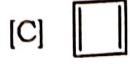
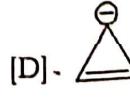
- [A] increase in pH
- [B] increase in atomic mass
- [C] increase in charge
- [D] All of the above

41. In biological systems, the metal ion involved in the dioxygen transport besides Fe is

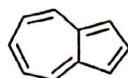
- [A] Co
- [B] Zn
- [C] Mg
- [D] Cu

42. Vitamin  $\text{B}_{12}$  is an example of

- [A] hydrolyses
- [B] oxidoreductases
- [C] isomerases and synthases
- [D] siderophores

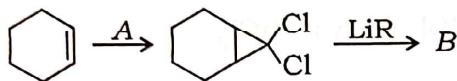
43. The ground state of  $V^{3+}$  ion is  
 [A]  $^3F_2$   
 [B]  $^5D_0$   
 [C]  $^3F_4$   
 [D]  $^2D_{5/2}$
44. Carbon-14 dating method is based on the fact that  
 [A] carbon-14 is highly soluble  
 [B] carbon-14 is highly insoluble  
 [C] carbon-14 fraction is same in all the compound  
 [D] ratio of carbon-14 and carbon-12 remains constant during integration
45. The de Broglie hypothesis is associated with  
 [A] wave nature of electrons only  
 [B] wave nature of protons only  
 [C] wave nature of radiation  
 [D] wave nature of all material particles
46. Consider the following statements for  $d$ -orbitals having  
 I. four lobes and one node  
 II. four lobes and two nodes  
 III. opposite lobes with opposite signs  
 IV. opposite lobes with same signs  
 Select the **correct** alternative from the following :  
 [A] I, III  
 [B] II, IV  
 [C] II, III  
 [D] I, IV
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47. The most probable distance at which 1s electron of H-like atom is found to be  
 [A]  $Z/a_0$   
 [B]  $Z_3/a_0$   
 [C]  $a_0/Z$   
 [D]  $a_0/Z_3$
48. Which one of the following molecules **does not** obey EAN rule?  
 [A]  $Fe_2(CO)_8$   
 [B]  $Mn_2(CO)_{10}$   
 [C]  $Fe_3(CO)_{12}$   
 [D]  $Co_4(CO)_{12}$
49. Wilkinson's catalyst is  
 [A]  $P_3Ph_3RhCl$   
 [B]  $(PPh_3)RhCl$   
 [C]  $(PPh_3)_3RhCl$   
 [D]  $(PPh_3)_2RhCl_2$
50. Which one of the following compounds is optically active?  

- [A] I  
 [B] II  
 [C] III  
 [D] IV
51. Among the following, the aromatic compound is  
 [A]   
 [B]   
 [C]   
 [D] 

52. The following hydrocarbon has a dipole moment of 0.8 D because

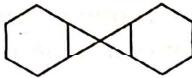


- [A] it exists as the structure in which both the rings exhibit aromaticity
- [B] the charge separation permits conformational stability
- [C] the two rings are of different size
- [D] the molecule obeys  $4n + 2$  Huckel rule

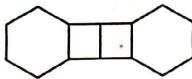
53. In the following reaction A and B are



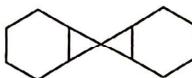
- [A] :CH<sub>2</sub>



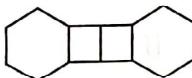
- [B] :CCl<sub>2</sub>



- [C] :CCl<sub>2</sub>



- [D] :CH<sub>2</sub>



54. Which one of the following has the lowest CO stretching frequency?

- [A] V(CO)<sup>+</sup>

- [B] Co(CO)<sub>4</sub><sup>-</sup>

- [C] Ni(CO)<sub>4</sub>

- [D] Fe(CO)<sub>4</sub><sup>2-</sup>

55. The molecule containing one unpaired electron is

- [A] CO

- [B] CN<sup>-</sup>

- [C] NO

- [D] O<sub>2</sub>

56. BF<sub>3</sub> molecule belongs to which following point group?

- [A] C<sub>2v</sub>

- [B] D<sub>3d</sub>

- [C] C<sub>3v</sub>

- [D] D<sub>3h</sub>

57. The molecule which is IR-inactive but Raman-active, is

- [A] N<sub>2</sub>

- [B] HCl

- [C] SO<sub>2</sub>

- [D] protein

58. Which of the following is **not** exact differential?

- [A] dQ (Q = heat absorbed)

- [B] dU (U = internal energy)

- [C] dS (S = entropy)

- [D] dF (F = free energy)

59. In case of isothermal expansion, forbidden process will be

- [A] W < W<sub>max</sub>

- [B] W = W<sub>max</sub>

- [C] W > W<sub>max</sub>

- [D] W = 0

60. T-S diagram for a Carnot cycle is a/an

- [A] rectangle

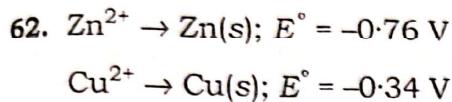
- [B] circle

- [C] ellipse

- [D] quadrilateral type but not rectangle

61. The mean translational kinetic energy per molecule of an ideal gas is

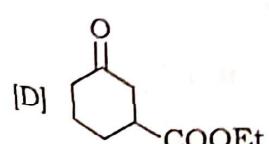
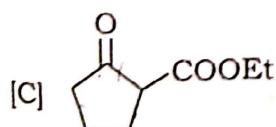
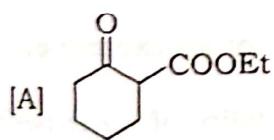
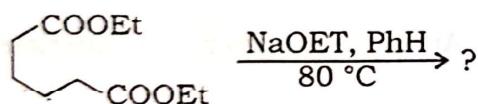
- [A]  $kT$
- [B]  $(1/2)kT$
- [C]  $(3/2)kT$
- [D]  $(2/3)kT$



Which of the following is spontaneous?

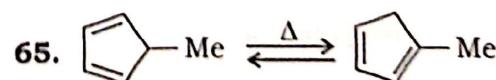
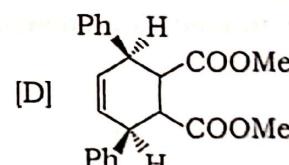
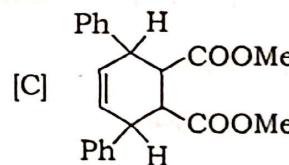
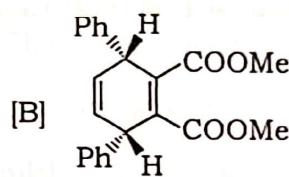
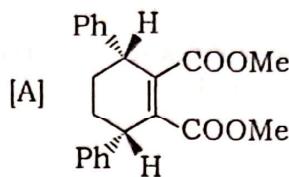
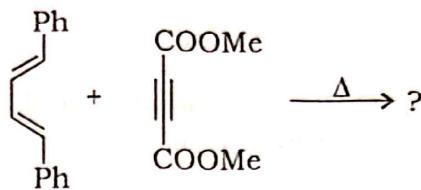
- [A]  $Zn^{2+} + Cu \rightarrow Zn + Cu^{2+}$
- [B]  $Cu^{2+} + Zn \rightarrow Cu + Zn^{2+}$
- [C]  $Cu^{2+} + Zn^{2+} \rightarrow Cu + Zn$
- [D] None of the above

63. The product of the following reaction is



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64. What is the product of the following reaction?



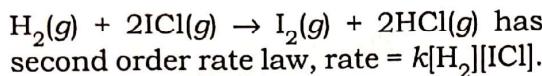
is

- [A] 1,3-sigmatropic hydrogen shift
- [B] 1,3-sigmatropic methyl shift
- [C] 1,5-sigmatropic hydrogen shift
- [D] 1,5-sigmatropic methyl shift

**66.** Choose the correct statement.

- [A] The  $t_{1/2}$  of a first order reaction is independent of the initial concentration
- [B] Order is always equal to the molecularity of reaction
- [C] The unit of second order reaction is  $\text{mol dm}^{-3} \text{ s}^{-1}$
- [D] The rate constant of a reaction decreases with  $T$

**67.** The reaction



Hence rate determining step is

- [A]  $\text{H}_2(g) + \text{ICl}(g) \rightarrow \text{HCl}(g) + \text{HI}(g)$
- [B]  $\text{HI}(g) + \text{ICl}(g) \rightarrow \text{I}_2(g) + 2\text{HCl}(g)$
- [C] Both [A] and [B]
- [D] None of the above

**68.** Potential difference of the electrical double layer formed in a colloidal sol is called

- [A] EMF
- [B] Zeta potential
- [C] Brownian potential
- [D] Nernst potential

**69.** The *p*-type semiconductor is obtained when Si is doped with

- [A] Al
- [B] Ge
- [C] Ga
- [D] As

**70.** No Bragg's reflection of X-rays from a crystal will be observed if  $d_{hkl}$  is smaller than

- [A]  $\lambda/4$
- [B]  $\lambda/3$
- [C]  $\lambda/2$
- [D]  $\lambda$

**71.** The mean deviation expressed as a fraction of the mean value in percentage is known as

- [A] standard deviation
- [B] relative deviation
- [C] standard mean deviation
- [D] None of the above

**72.** Accuracy expressed the

- [A] deviation from the experiment
- [B] correctness of an experiment
- [C] feasibility of an experiment
- [D] reproducibility of an experiment

**73.** In the boat conformation of cyclohexane, the most destabilizing interaction is

- [A] eclipsing
- [B] 1,3-diaxial
- [C] 1,3-diequatorial
- [D] flagpole-flagpole

- 74.** In the singlet and the triplet states of methylene radical, the unsaturated electrons are respectively
- [A] unpaired, unpaired
  - [B] paired, paired
  - [C] unpaired, paired
  - [D] paired, unpaired
- 75.** In the SN reaction, the best leaving group among the following is
- [A] chloride
  - [B] fluoride
  - [C] tosylate
  - [D] bromide
- বেনেসোঁ of Aliak**
- 76.** Which of the following phrases are **not** correctly associated with an SN1 reaction?
- I. Rearrangement is possible
  - II. Rate is affected by solvent polarity
  - III. The strength of the nucleophile is important in determining rate
  - IV. The reactivity series is tertiary > secondary > primary
  - V. Proceeds with complete inversion of configuration
- Select the **correct** alternative from the following :
- [A] III, V
  - [B] II, III, V
  - [C] V only
  - [D] III only
- 77.** Which of the following compounds under basic conditions undergoes self addition to give aldol?
- [A] Acetaldehyde
  - [B] Benzaldehyde
  - [C] Formaldehyde
  - [D] All of the above
- 78.** The catalyst used in Fries rearrangement is the same as that used in
- [A] Friedel-Crafts alkylation
  - [B] Cannizzaro reaction
  - [C] Oppenauer oxidation
  - [D] Hofmann rearrangement
- 79.** Which of the following reaction is **not** expected with glucose?
- [A] It does not form oxime
  - [B] It does not react with  $\text{CH}_3\text{MgBr}$
  - [C] It does not reduce Tollens' reagent
  - [D] It does not form osazones
- 80.** Supramolecular chemistry is the study of
- [A] strong bonds like covalent bonds
  - [B] hydrogen bonding and van der Waals forces
  - [C]  $\pi \dots \pi$  interactions
  - [D] Both [B] and [C]

**PART-II**

**( General Knowledge, General English & Islamic History and Culture )**

**81.** The total number of Prophets (AS) is

- [A] 124000
- [B] 128000
- [C] 125000
- [D] 120000

**82.** Who was Prophet Muhammad's (PBUH) father?

- [A] Abdullah
- [B] Abdul Muttalib
- [C] Abu Talib
- [D] Hamza

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**83.** Hazr-e-Aswad means

- [A] pious stone
- [B] black stone
- [C] foundation stone
- [D] None of the above

**84.** The capital of Umayyad dynasty was

- [A] Baghdad
- [B] Cairo
- [C] Khurasan
- [D] Damascus

**85.** Ansar means

- [A] defender
- [B] helper
- [C] ruler
- [D] None of the above

**86.** *Frankenstein* is

- [A] A film by Alfred Hitchcock
- [B] A novel by Mary Shelley
- [C] A detective story by Conan Doyle
- [D] A short story by O. Henry

**87.** 'Harshabardhan' and 'Gobardhan' — these two characters are created by

- [A] Narayan Debnath
- [B] Narayan Gangopadhyaya
- [C] Shibrat Chakraborty
- [D] Shaila Chakraborty

**88.** Who is the first Indian to hit a triple century in Test Cricket?

- [A] Virender Sehwag
- [B] VVS Laxman
- [C] Sachin Tendulkar
- [D] Sunil Gavaskar

**89.** The largest steel plant in India is in

- [A] Jamshedpur
- [B] Bokaro
- [C] Durgapur
- [D] Bhilai

**90.** Which territories of India were first liberated from the British rule and renamed as 'Sahid' and 'Swaraj'?

- [A] Kohima
- [B] Delhi
- [C] Andaman and Nicobar Islands
- [D] Nagaland

91. Fill in the blank with an appropriate article/preposition :  
 Government must establish \_\_\_\_\_ University in the region.
- [A] a  
 [B] an  
 [C] the  
 [D] None of the above
- রেনেসাঁ of Aliyah*
92. Select the correct active form of the given sentence :  
 He was given a shirt for his birthday by her.
- [A] She has gave him a shirt for his birthday  
 [B] She give a shirt to him for his birthday  
 [C] She gave him a shirt for his birthday  
 [D] She will be giving him a shirt for his birthday
93. Fill in the blank with an appropriate adverb :  
 The tea is \_\_\_\_\_ hot, I cannot drink it.  
 Let it cool down a bit.
- [A] hardly  
 [B] scarcely  
 [C] hard  
 [D] too
94. Fill in the blank with an appropriate adverb :  
 The essay is \_\_\_\_\_ good.
- [A] more  
 [B] very  
 [C] most  
 [D] much
95. Fill in the blank with an appropriate adjective :  
 My house is \_\_\_\_\_ as yours.
- [A] big  
 [B] as big  
 [C] bigger  
 [D] biggest
96. On which day did Holy Prophet (PBUH) die?
- [A] Saturday  
 [B] Friday  
 [C] Monday  
 [D] Tuesday
97. The capital of Iraq is
- [A] Najaf  
 [B] Kufa  
 [C] Tehran  
 [D] Baghdad
98. The first structure of the Holy Kabaa was built by
- [A] Hadrat Moosa (AS)  
 [B] Hadrat Ibrahim (AS)  
 [C] Hadrat Adam (AS)  
 [D] Hadrat Yahya (AS)
99. How many times does the Haji run between Safa and Marwah?
- [A] 10  
 [B] 12  
 [C] 7  
 [D] 15
100. The authentic Hadees is known as.
- [A] Masand  
 [B] Sahifah  
 [C] Sahih  
 [D] None of the above