



त्रिभुवन विश्वविद्यालय
विज्ञान तथा प्रविधि अध्ययन संस्थान
डीनको कार्यालय
परीक्षा शाखा
बल्खु

सेमेष्टर प्रणाली अनुसार चार वर्षे स्नातक तह कम्प्युटर विज्ञान तथा सूचना प्रविधि (B.Sc.CSIT)
विषयको २०७५ सालको नयाँ विद्यार्थी भर्ना सम्बन्धी अत्यन्त जरुरी सूचना

त्रिभुवन विश्वविद्यालय, विज्ञान तथा प्रविधि अध्ययन संस्थान अन्तर्गतका आंगिक क्याम्पस तथा सम्बन्धन प्राप्त कलेजहरुमा सेमेष्टर प्रणाली अनुसार पठन पाठन हुने विज्ञान तर्फ चार वर्षे स्नातक तह कम्प्युटर विज्ञान तथा सूचना प्रविधि (B.Sc. CSIT) विषयमा भर्ना हुन इच्छुक विद्यार्थीहरुको निमित्त २०७५ सालको लागी निम्नानुसारको नयाँ भर्ना कार्यक्रम प्रकाशित गरिएको छ । आवेदन फाराम website www.tuiost.edu.np र website www.cdcsit.edu.np वाट download गरी २०७५ साल श्रावण २९ गते देखि अध्ययन संस्थान अन्तर्गत B.Sc.CSIT पढाई हुने आंगिक क्याम्पस र सम्बन्धन प्राप्त कलेजहरुमा रु. १२००/- तिरी बुझाउन सकिने छ । एक ठाउँबाट फाराम भरेपछि अर्को ठाउँमा फाराम भर्नु पर्ने छैन । एउटै फाराम सबै क्याम्पस/कलेजहरुको लागी मान्य हुने छ ।

भर्ना सम्बन्धी कार्यक्रम :

आवेदन फाराम बुझाउने अन्तिम मिति : २०७५ साल भाद्र १९ गते सम्म ।

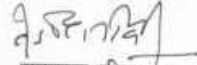
दोब्बर दस्तुर तिरी आवेदन फाराम बुझाउने अन्तिम मिति : २०७५ साल भाद्र २४ गते सम्म ।

परीक्षा केन्द्र : पछि तोकिने छ ।

प्रवेश परीक्षा हुने मिति र समय : २०७५ साल आश्विन ६ गते शनिवार दिनको १२.०० बजे देखि २.०० बजे सम्म ।

विस्तृत जानकारीको लागि website www.tuiost.edu.np र website www.cdcsit.edu.np वाट हेर्न सकिने छ ।




सहायक डीन



त्रिभुवन विश्वविद्यालय
विज्ञान तथा प्रविधि अध्ययन संस्थान
डीनको कार्यालय
परीक्षा शाखा
वल्लु

सेमेष्टर प्रणाली अनुसार चार वर्षे स्नातक तह कम्प्युटर विज्ञान तथा सूचना प्रविधि (B.Sc. CSIT) विषयको २०७५ सालको नयाँ विद्यार्थी भर्ना सम्बन्धी अत्यन्त जरुरी सूचना

त्रिभुवन विश्वविद्यालय, विज्ञान तथा प्रविधि अध्ययन संस्थान अन्तर्गतका आंगिक क्याम्पस तथा सम्बन्धन प्राप्त कलेजहरूमा सेमेष्टर प्रणाली अनुसार पठन पाठन हुने विज्ञान तर्फ चार वर्षे स्नातक तह कम्प्युटर विज्ञान तथा सूचना प्रविधि (B.Sc. CSIT) विषयमा भर्ना हुन इच्छुक विद्यार्थीहरूको निमित्त २०७५ सालको लागि निम्नानुसारको नयाँ भर्ना कार्यक्रम प्रकाशित गरिएको छ ।

१. आवेदनको लागि न्यूनतम योग्यता :

- (क) वि.वि. वा त्यसबाट मान्यता प्राप्त शिक्षण संस्थाबाट प्रविणता प्रमाण पत्र तह विज्ञान (I.Sc.) (भौतिक शास्त्र र १०० पूर्णाङ्कको गणित विषय लिई) वा सो सरहको परीक्षामा कम्तिमा दोश्रो श्रेणीमा उत्तीर्ण गरेको हुनु पर्ने ।
- (ख) माध्यमिक विद्यालय (उच्च माध्यमिक विद्यालय) को ११ र १२ विज्ञान तर्फ (भौतिक शास्त्र र १०० पूर्णाङ्कको गणित विषय लिई) प्रत्येक विषयमा C Grade वा सो सरहको परीक्षामा कम्तिमा दोश्रो श्रेणीमा उत्तीर्ण गरेको हुनु पर्ने ।
- (ग) A Level विज्ञान तर्फ (भौतिक शास्त्र र १०० पूर्णाङ्कको गणित विषय लिई) कम्तिमा D Grade हुनुपर्ने ।
- (घ) CTEVT बाट Three Years Diploma Engineering विषयमा गणित र भौतिक शास्त्र विषय लिएको हुनुपर्ने ।
- (ङ) प्रवेश परीक्षाको आवेदन फाराम भराउँदा आवेदन फाराम भर्ना तोकिएको न्यूनतम योग्यता छ छैन रुजु गरी सम्बन्धित क्याम्पस कलेजहरूले फाराम भराउने ।

२. आवेदन फाराम वितरण : आवेदन फाराम website www.tuioest.edu.np / website www.cdcsit.edu.np बाट download गरी २०७५ साल श्रावण २१ गते देखि B.Sc.CSIT पढाई हुने आंगिक क्याम्पस र सम्बन्धन प्राप्त कलेजहरूमा रु. १२००/- तिरी बुझाउन सकिने छ । एक ठाउँबाट फाराम भरेपछि अर्को ठाउँमा फाराम भर्नु पर्ने छैन । एउटै फाराम सबै क्याम्पस / कलेजहरूको लागि मान्य हुने छ ।

३. आवेदन फाराम बुझाउने अन्तिम मिति : २०७५ साल भाद्र १९ गते सम्म । दोब्बर दस्तुर तिरी २०७५ साल भाद्र २४ गते सम्म ।

४. सम्बन्धित क्याम्पस । कलेजहरूले संकलन गरेको आवेदन फाराम बुझाउनु पर्ने अन्तिम मिति : Single दस्तुरका फाराम २०७५ साल भाद्र २१ गते सम्म र Double दस्तुरका फारामहरू २०७५ भाद्र २६ गते सम्ममा डीन कार्यालयमा बुझाउनु पर्नेछ ।

५. प्रवेश परीक्षा हुने मिति र समय : २०७५ साल आश्विन ६ गते शनिवार दिनको १२.०० बजे देखि २.०० बजे सम्म ।

६. प्रवेश पत्र : आफूले फाराम भरेको क्याम्पस, कलेजहरूबाट नै उपलब्ध हुने छ ।

७. परीक्षा केन्द्र : पछि तोकिएको छ ।

८. क्याम्पस । कलेजहरूले विद्यार्थीहरूबाट प्राप्त फाराम शुल्क बुझाउने सम्बन्धमा : प्रत्येक विद्यार्थीहरूले तिरको फाराम शुल्क बापतको रु. १२००/- का दरले हुन आउने रकम सम्बन्धित क्याम्पस, कलेजहरूले कीर्तिपुर स्थित नेपाल बैंक लि. मा रहेको यस डीन कार्यालयको चल्ती लि. नं ०४५००१०००९९१०३०००००९ मा जम्मा गरी सोको भौचर परीक्षा शाखामा आवेदन फाराम साथ बुझाउनु पर्ने छ । विद्यार्थीहरूको फाराम रुजु गरी वर्णानुक्रम अनुसारको नामावली विवरण Excel File मा Capital Letter मा तयार गरी Pen Drive मा अनिवार्य रूपमा उपलब्ध गराउनु पर्नेछ ।

९. भर्ना : कुनै पनि आंगिक क्याम्पस तथा सम्बन्धन प्राप्त कलेजमा आवेदन दिएका विद्यार्थीहरूले प्रवेश परीक्षाको नतिजा प्रकाशन पछि प्रवेश परीक्षाको योग्यता कमको सूचीको आधारमा आफूले अध्ययन गर्न चाहेको क्याम्पस/कलेजमा भर्ना हुन सक्नेछन् ।

१०. कक्षा संचालन : २०७५ साल कार्तिक २८ गते देखि ।

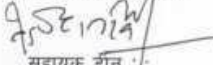
११. प्रवेश परीक्षा सम्बन्धी अन्य जानकारी :

- प्रवेश परीक्षाको अंकभार १०० पूर्णाङ्कको हुनेछ । जसमा I.Sc / ११ र १२ वा सो सरहको पाठ्यक्रमको आधारमा English, Mathematics, Physics, Chemistry विषयको दुई घण्टा को परीक्षा हुनेछ ।
- प्रवेश परीक्षाको सम्पूर्ण प्रश्नहरू Objective हुने छन् ।
- प्रवेश परीक्षा उत्तिर्ण हुन पूर्णाङ्कको ३५% अंक प्राप्त गर्नु पर्ने छ ।
- प्रवेश परीक्षाको नमुना प्रश्नपत्र सम्बन्धित क्याम्पस, कलेजबाट प्राप्त हुनेछ ।

नोट :उपरोक्त अनुसार भर्ना भएका विद्यार्थीहरूको प्रथम वर्ष प्रथम शत्रको परीक्षा २०७५ साल चैत महिनामा संचालन हुनेछ ।

मिति : २०७५/०४/२०




सहायक डीन



Tribhuvan University

Campus Regd. No.

Institute of Science & Technology

4 years B. Sc. Computer Science & Information Technology(B.Sc.CSIT)
Entrance Examination Application Form

PHOTO

..... Campus/College

Entrance Exam Roll No.:

To The Campus Chief / Principal,

Dear Sir,

I beg to submit this application form for my admission in B.Sc. CSIT classes of your campus / college for the academic year 207... /207... and I hereby promise to abide by all the rules and regulations of this campus/college and Tribhuvan University,

Signature :

Name:

Name in Devanagari..... Mobile No.

Name in English(Block letters) :

Date of Birth : B.S. A.D. Gender : Male / Female Nationality :

Permanent Address : Zone : District : VDC/Municipality :

Ward No. Block No. : Locality :

Temporary Address :

Father's Name : Occupation : Tel No.

Guardian's Name : Occupation : Relation..... Tel No.

Local Guardian: Occupation : Relation..... Tel No.

Examination Passed:

Level	Board or University	Passed year	Full Marks	Marks obtained	Percentage	Division	Regd. No.	Higher secondary School/College
S.L.C								
I.Sc./2/A								
- Level								
Others								

I hereby agree to any kind of action taken by the university and campus/college on the charge of violation of the rules and regulations of TU by my ward and I will have no objection whatsoever to that effect.

Name of Guardian:
Signature Date:

To the best of my knowledge the data supplied above by me are correct. I strictly obey the rules and regulations of TU and campus/college and agree to any kind of action taken against me for any kind of my fault.

Name of Student:
Signature Date:

Students are advised to read the information booklet carefully.

Tribhuvan University

Institute of Science & Technology

B. Sc. CSIT Entrance Examination 207.....

Entrance Examination Coordination Committee

ADMIT CARD

PHOTO

Entrance Exam Roll No

Name: Campus:

Date:

Full Signature of Applicant

STUDENTS MUST BRING THIS ADMIT CARD ON THE DAY OF EXAMINATION.

Assistant Dean

Name :

7207/2047 Roll no.....

B.Sc. CSIT Entrance 2074

Tribhuvan University
Institute of Science and Technology
4 Years Bachelor in Computer Science and Information Technology (B.Sc.CSIT)
Entrance Examination
2074

Full Marks: 100
Time: 2.00 hrs.

Attempt all question:

Mathematics

(25 × 1 = 25)

1. p/q , $q \in \mathbf{R}$, is undefined if

- (a) $p \neq 0, q = 0$ (b) $p = 0, q = 0$
(c) $p \neq 0, q \neq 0$ (d) $p = 0, q \neq 0$

2. $[a, b] =$

- (a) $\{x : a \leq x \leq b\}$ (b) $\{x : a < x < b\}$
(c) $\{x : a < x \leq b\}$ (d) $\{x : a \leq x < b\}$

3. If $f: \mathbf{R} \rightarrow \mathbf{R}$ defined by $f(x) = \sqrt{4-x^2}$ then $f(-3)$ is

- (a) undefined (b) $\sqrt{13}$
(c) $i\sqrt{5}$ (d) $-\sqrt{13}$

4. If $|x| = 1$ then x is

- (a) $\{1\}$ (b) $\{-1\}$ (c) $\{-1, 1\}$ (d) $\{-1, -1\}$

5. If $\log_2(x-7) = 1$, then x is

- (a) not known (b) 8 (c) 6 (d) 9

6. The value of $\sin(\cos^{-1} 4/5)$ is

- (a) $4/5$ (b) $3/5$ (c) $5/4$ (d) $5/3$

7. If $\tan^2 x = 3$ then x is

- (a) $n\pi + \pi/3$ (b) $n\pi - \pi/3$
(c) $n\pi \pm \pi/3$ (d) $n\pi$

8. If $K + 2, 4K - 6, 3K - 2$ are in A.P. then K is

- (a) -6 (b) 0 (c) 3 (d) -3

9. The sum to infinity of $1 - \frac{1}{2} + \frac{1}{4} - \frac{1}{8} + \dots$, is

- (a) 0 (b) $2/3$ (c) $1/3$ (d) 1

10. If $A = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}$ and $B = \begin{pmatrix} 1 & 2 & 3 \end{pmatrix}$ then AB is

- (a) (14) (b) $\begin{pmatrix} 1 & 4 & 9 \end{pmatrix}$
(c) 0 (d) $\begin{pmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 3 & 6 & 9 \end{pmatrix}$

Name

Roll no.

B.Sc. CSIT Entrance 2074

11. The value of $\begin{bmatrix} 0 & 2 & 3 \\ 1 & 2 & 3 \\ 4 & 8 & 12 \end{bmatrix}$ is
(a) 10 (b) 1 (c) 0 (d) -1
12. The matrix $\begin{bmatrix} 1 & 2 & 3 \\ -2 & 0 & 4 \\ -3 & -4 & 5 \end{bmatrix}$ is
(a) Diagonal (b) Symmetric
(c) Skew symmetric (d) Unit
13. $[2(\cos 15^\circ + i \sin 15^\circ)]^6 =$
(a) $64i$ (b) 64 (c) 0 (d) $-64i$
14. $(1 + \omega - \omega^2)^3 + (1 + \omega - \omega^2)^3 =$
(a) 16 (b) 16ω (c) -16 (d) $16\omega^2$
15. The quadratic equation whose roots are -3 and 2 is
(a) $x^2 + x - 6 = 0$ (b) $x^2 + x + 6 = 0$
(c) $x^2 - x - 6 = 0$ (d) $x^2 - x + 6 = 0$
16. The line $kx + 3y + 5 = 0$ and $5x - 2y - 6 = 0$ are perpendicular to each other for $K =$
(a) $6/5$ (b) $-6/5$ (c) $3/5$ (d) $-3/5$
17. The lines represented by $5x^2 + 3xy + ky^2 = 0$ are perpendicular to each other for $k =$
(a) 5 (b) 3 (c) 0 (d) -5
18. The equation of tangent to the circle $x^2 + y^2 = 9$ at $(1, 1)$ is
(a) $x + y = 9$ (b) $x - y = 9$
(c) $2x + 2y = 9$ (d) $-x - y = 9$
19. $\lim_{x \rightarrow 0} \frac{3x^2 + 2x - 5}{6x^2 + 4x - 7} =$
(a) 2 (b) 3 (c) $5/7$ (d) $1/2$
20. $\lim_{x \rightarrow 0} \frac{1 - \cos ax}{x^2} =$
(a) $a^2/2$ (b) a^2 (c) $2a^2$ (d) $4a^2$
21. If $x = t + \sin t$, $y = 1 - \cos t$ then $\frac{dy}{dx}$ is
(a) $\tan t$ (b) $\tan t/2$
(c) $-\tan t$ (d) $-\tan t/2$
22. The derivative of $\cos x$ w. r. t. $\sin x$ is
(a) $-\tan x$ (b) $\tan x$ (c) $\cot x$ (d) $-\cot x$
23. The point of inflection of $y = x^3 - 12x^2 = 0$ is
(a) 12 (b) -12 (c) 4 (d) 0

IOST, TU

Please blacken the correct answer on the Answer sheet.

2

Name

Roll no.....

B.Sc. CSIT Entrance 2074

24. $\int \frac{dx}{\sin^2 x} dx =$

- (a) $\cot x + C$ (b) $-\cot x + C$
(c) $\tan x + C$ (d) $-\tan x + C$

25. $\int \frac{dx}{1+x^2} dx =$

- (a) $\pi/4$ (b) $\pi/2$ (c) 0 (d) 1

English

(25×1=25)

26. Re word "Commemorate" has the stress on syllable.

- (a) First (b) Second (c) Third (d) Fourth

27. The word "go" has the same vowel sound as the word.....

- (a) nor (b) four (c) sew (d) four

28. I hope that a school for village children.

- (a) opens (b) is opened
(c) has to be opened (d) be opened

29. One who is fond of fighting is

- (a) bellicose (b) bigot (c) pacifist (d) fatalist

30. Select the right synonym to the word "ambiguous".

- (a) obvious (b) clear (c) equivocal (d) expressed

31. Give the opposite meaning of "ominous".

- (a) rash (b) auspicious (c) folly (d) fictitious

32. He died cancer but she died the loss of blood.

- (a) of, from (b) from, of (c) of, at, (d) on, at

33. Whom did you give it

- (a) at (b) for (c) from (d) to

34. The dog sprang a cat.

- (a) upon (b) on (c) at (d) from

35. insert the missing vowel in these words d-sease, d-cease, suit-vs

- (a) e-i-o, (b) i-e-o (c) o-i-e, (d) e-e-e

36. Choose the correct word from given options: Rice and curry my favourite dish.

- (a) are (b) has (c) is (d) am

37. There is a snag in it somewhere.

- (a) flaw (b) insect (c) profit (d) garland

38. Custom of having many wives is called.....

- (a) bigamy (b) polygamy
(c) monogamy (d) matrimony

39. Tick the right word Monkeys

- (a) growl (b) gibber (c) yelp (d) howl

12/12/2014

Name :

Roll no.....

B.Sc. CSIT Entrance 2074

40. Choose the right grammatical category of the underlined phrase. Ram handed a book to his sister.
(a) Complement (b) Direct object
(c) Adjunct (d) Indirect object

41. The car needs hood repaired.
(a) its (b) it's (c) itself (d) their

42. These two photographers are same.
(a) a (b) an (c) the (d) same

43. The girl is versatile, means
(a) bad (b) gifted (c) clumsy (d) unlucky

44. The word "aggression" takes the prefix
(a) non (b) un (c) in (d) il

45. Fear of fire is called.....
(a) sitophobia (b) pyrophobia
(c) trichophobia (d) monomania

46. Which of the following is a noun?
(a) real (b) readable
(c) readable (d) reality

47. We waited of the bus stop the bus came.
(a) fill (b) until (c) while (d) unless

48. One who travels from place to place.
(a) itinerant (b) mendicant
(c) tramp (d) tourist

49. You're coming to the party ?
(a) aren't you (b) can't you
(c) won't you (d) isn't you

50. Are you my friend or enemy? has a tone.
(a) rising and rising (b) rising and falling
(c) rising (d) falling and falling

Physics

(25×1=25)

51. The order of magnitude of radius of an atom is
(a) 10^{-7} m (b) 10^{-10} m (c) 10^{-12} m (d) 10^{-15} m

52. A projectile goes farthest away from the Earth, when the angle of projection is
(a) 0° (b) 45° (c) 90° (d) 120°

53. A simple pendulum when set into vibration comes to rest after sometimes because of
(a) friction of air (b) tension in the thread
(c) gravity (d) its mass

Name :

Roll no.

B.Sc. CSIT Entrance 2074

54. Powder clings to the skin because of
(a) Compression (b) Cohesion
(c) Adhesion (d) Capillarity
55. Viscosity is the inherent property of liquids and gases and is more closely related to
(a) Inertia (b) Shearing strain
(c) Transfer of momentum (d) Surface tension
56. A bridge of steel has length 700m. the temperature varies from 243 K to 313 K. The change in length of the bridge for above seasonal variation in temperature is ($\alpha_{\text{steel}} = 11 \times 10^{-6}/\text{K}$)
(a) 15.4 cm (b) 15.4 mm (c) 15.8 cm (d) 10 cm
57. The internal energy of a perfect gas does not change during
(a) adiabatic process (b) isothermal process
(c) isobaric process (d) isochoric process
58. The efficiency of a steam engine is of the order of
(a) 10% (b) 20% (c) 60% (d) 100%
59. A gas performs maximum work when it expands
(a) Isothermally (b) Isobarically
(c) adiabatically (d) isochorically
60. When two waves overlap the result is larger disturbance means
(a) The interference is constructive
(b) The interference is destructive
(c) The interference depends on the type of waves
(d) all of the above
61. While standing still, an observer measures the frequency of a tuning fork to be 524 Hz. What frequency does he measure as he approaches the fork at 5 m/s? (speed of sound in air = 340 m/s).
(a) 500 Hz (b) 420 Hz (c) 520 Hz (d) 532 Hz
62. In longitudinal wave the displacement of the particles of the medium is
(a) parallel to the wave velocity
(b) antiparallel to the wave velocity
(c) perpendicular to the wave velocity
(d) parallel or antiparallel to the wave velocity
63. The illuminance at a distance of 2m from a 100 candela lamp is
(a) 10 lux (b) 15 lux (c) 25 lux (d) 100 lux
64. When light beam is incident on a prism, it causes
(a) lateral shift (b) dispersion only
(c) deviation only (d) dispersion and deviation both
65. If critical angle for a material placed in air is 30° , the refractive index will be
(a) 2.0 (b) 0.5 (c) 1.5 (d) 2.5
66. A body has 1 C of negative charge. How many excess electrons it has as compared to its neutral state?
(a) 6.25×10^{18} (b) 6.25×10^{19}
(c) 1.6×10^{-19} (d) 1.6×10^{18}

Name :

Roll no.

B.Sc. CSIT Entrance 2074

67. On heating a liquid, the refractive index generally
- (a) does not change
 - (b) decreases
 - (c) increases
 - (d) May increase or decrease depending on the rate of heating
68. The torque on an electric dipole of moment \vec{p} when placed in an electric field \vec{E} is proportional to
- (a) P/E
 - (b) E/P
 - (c) $P \cdot E$
 - (d) $PE \tan\theta$
69. Wheatstone bridge is used to measure
- (a) e.m.f.
 - (b) potential
 - (c) current
 - (d) resistance
70. Magnetism of a magnet
- (a) is zero at absolute zero temperature
 - (b) increases with temperature
 - (c) is maximum at curie temperature
 - (d) becomes practically zero above curie temperature
71. The self inductance of coil is 10 mH. If a current of 2A is flown. What is the magnetic flux through the coil?
- (a) 0.02 Wb
 - (b) 0.01 Wb
 - (c) 0.05 Wb
 - (d) 10 Wb
72. The positive rays are
- (a) electromagnetic waves
 - (b) positrons
 - (c) ions
 - (d) protons
73. Wavelength of a photon is 4000 Å. Its energy will be
- (a) 3 KeV
 - (b) 4000 eV
 - (c) 3.1 J
 - (d) 3.1 eV
74. According to Bohr's model of the H atom, the radius of the stationary orbit characterized by the principal quantum number n is proportional to
- (a) $1/n$
 - (b) n^2
 - (c) n
 - (d) $1/n^2$
75. In some substances, charge can flow at ordinary temperature but not at very low temperature. These are
- (a) Semiconductors
 - (b) Conductors
 - (c) Insulators
 - (d) dielectrics
- Chemistry**
- (25×1=25)
76. The number of atoms of carbon present in 25.0 g of CaCO_3 is
- (a) 1.505×10^{23}
 - (b) 1.005×10^{23}
 - (c) 1.205×10^{23}
 - (d) 1.303×10^{23}
77. The electronic configuration of chromium is
- (a) $[\text{Ar}] 3d^5 4s^1$
 - (b) $[\text{Ar}] 3d^6 4s^2$
 - (c) $[\text{Ar}] 3d^7 4s^2$
 - (d) $[\text{Ar}] 3d^4 4s^2$

Name :

720792048

Roll no.

B.Sc. CSIT Entrance 2074

78. The structure of CO_2 molecule is
(a) linear (b) tetrahedral
(c) angular (d) pyramidal
79. Which of the following elements has highest electron affinity?
(a) chlorine (b) bromine
(c) iodine (d) fluorine
80. The oxidation number of Fe in the compound Fe_3O_4 is
(a) +4/3 (b) +2/3 (c) +5/3 (d) +8/3
81. MgO is an example of
(a) basic oxide (b) amphoteric oxide
(c) neutral oxide (d) acidic oxide
82. Down's process is used for the extraction of
(a) sodium (b) sodium hydroxide
(c) sodium carbonate (d) ammonia
83. The IUPAC name of $\text{H}_3\text{C}-\overset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}}-\text{CH}_3$ is
(a) 2, 2-dimethyl propane (b) 2-methyl butane
(c) 2-methyl propane (d) pentane
84. Al_2C_3 reacts with water to give
(a) CH_4 (b) C_2H_2 (c) H_2 (d) C_2H_4
85. Protein is a polymer of
(a) glycol (b) glucose
(c) α -amino acid (d) phthalic acid
86. Which of the following carbohydrate gives Tollen's test?
(a) glucose (b) fructose
(c) galactose (d) maltose
87. DDT is an example of
(a) insecticide (b) herbicide
(c) fungicide (d) rodenticide
88. Tranquilizers are substances used for the treatment of
(a) cancer (b) mental anxiety
(c) physical disorder (d) malaria
89. Each carbon atom in benzene is
(a) sp^2 hybridized (b) sp hybridized
(c) sp^3 hybridized (d) sp^3d hybridized
90. Primary, secondary and tertiary alcohols are distinguished by
(a) Hoffman's test (b) Fehling's solution
(c) Victor Meyer's test (d) Beilstein's test

Name :

720142044

Roll no.....

B.Sc. CSIT Entrance 2074

91. The reduction of aldehydes or ketones by amalgamated zinc and concentrated HCl to corresponding alkane is called as
(a) Clemmensen reduction (b) Wolff-Kishner reduction
(c) Cannizzaro's reaction (d) Perkin's reaction
92. Which of the following compound is most basic?
(a) NH_3 (b) CH_3NH_2 (c) $(\text{CH}_3)_2\text{NH}$ (d) $(\text{CH}_3)_3\text{N}$
93. The molecular formula of white vitriol is
(a) $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ (b) $\text{Zn}(\text{OH})_2$ (c) ZnCO_3 (d) ZnO
94. Cinnabar is an ore of
(a) zinc (b) copper (c) mercury (d) iron
95. The pH of 0.04M HNO_3 is
(a) 1.4 (b) 2.0 (c) 3.0 (d) 4.0
96. The unit of cell constant is
(a) Sm^{-1} (b) cm^{-1} (c) $\text{ohm}^{-1} \text{cm}^{-1}$ (d) ohm
97. The unit of rate constant for first order reaction is
(a) mol s^{-1} (b) $\text{L mol}^{-1} \text{s}^{-1}$
(c) s^{-1} (d) $\text{mol L}^{-1} \text{s}^{-1}$
98. Which of the following is an intensive property?
(a) volume (b) mass
(c) area (d) concentration
99. The unit of radioactivity is
(a) Curie (b) nik/L (c) Gauss (d) g/L
100. The compound $\text{Na}_2[\text{Fe}(\text{CN})_5\text{NO}]$ is known as
(a) sodium nitroprusside (b) Prussian blue
(c) Tollen's reagent (d) Bayer's reagent