

BE ENTRANCE MODEL QUESTION 2021

Answer Sheets

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Date: --

Section-A: Physics

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Section-B: Mathematics

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Section-C: Chemistry

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Section-D: English

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For Office Use Only

Physics Score: _____ Math Score: _____ Chemistry Score: _____ English Score: _____

Total Score : _____ Status: Selected/Not Selected Remarks: _____ Evaluated by: _____

Gaindakot, Nawalpur

BE ENTRANCE MODEL QUESTION 2025

Entrance Code : _____
(For office Use only)

Date _____

Time: 2 hrs

Subject: Physics/ Mathematics /Chemistry /English

Instruction to the Candidate

1. Occupy your seat only
2. Write your Entrance Roll Number clearly, both on the Entrance Test question Booklet and on the Entrance Test Answer Sheet.
3. Once the examination has started, no candidate will be allowed to leave the examination hall.
4. You are provided with a separate Answer Sheet in which you are required to darken (with the help of a HB pencil) the appropriate answer lettered choice box against the question number.

For example, if proper answer to question number 5 is choice b, then in the answer sheet provided, darken the lettered choice box B Against number 5 in the answer sheet.

5.

A	B	C	D	E
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5. For correction of a wrong answer choice, cross-mark the already darken wrong answer lettered choice box, and then re-darken the appropriate answer lettered choice box against the question number.

For example, later on, you found that the proper answer to question number 5 is choice d, not b, then in the answer sheet provided, cross-mark the previously darkened lettered choice box B and then darken the lettered choice box D against number 5 in the answer sheet

5.

A	B	C	D	E
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6. Use the blank pages given at the back for rough work. Do not use any paper other than the provided sheet
7. Subject and marks allocation:

SN	Subject	Marks
1	Physics	50
2	Mathematics	50
3.	Chemistry	30
4.	English	20

8. If there is no answer then darken the E option in the answer sheet.

Entrance Roll No. :

Entrance Code:

(For office use only)

Applicant's Name :

Address : Phone Number :

Physics Model Question for BE Entrance 2025 [25x2=50]

- Two bodies of masses m and $4m$ are moving with equal K.E. The ratio of their linear momentum is
 - 4:1
 - 1:1
 - 1:2
 - 1:4
- Two particles are projected simultaneously in the same vertical plane, from the same point, both with different speeds and at different angle with horizontal. The path followed by one, as seen by the other is
 - a vertical line
 - a parabola
 - a hyperbola
 - a straight line making a constant angle ($\neq 90^\circ$) with horizontal
- Characteristic X-rays are produced due to
 - transfer of momentum in collision of electrons with target atoms
 - transition of electrons from higher to lower electronic orbits in an atom
 - heating of the target
 - transfer of energy in collision of electrons with atoms in the target
- A slab consists of two portions of different material of same thickness and having conductivities K_1 and K_2 . The equivalent thermal conductivity of the slab is
 - $K_1 + K_2$
 - $K_1 K_2 / (K_1 + K_2)$
 - $2K_1 K_2 / (K_1 + K_2)$
 - $\sqrt{K_1 + K_2}$
- Quality of two sounds is different because
 - Their frequencies are different
 - Their intensities are different
 - Their amplitudes are different
 - Different overtones are present in them
- If null point is observed at the equatorial line of a bar magnet then the north pole of bar magnet must have faced
 - geographical north pole
 - geographical South Pole
 - east
 - west
- Three charges $2q$, $-q$ and $-q$ are located at the vertices of an equilateral triangle. At the center of the triangle
 - the field is zero but potential is non-zero
 - the field is non-zero but potential is zero
 - both field and potential are zero
 - both field and potential are non-zero
- A ray of light strikes a glass plate at an angle of 60° . If the reflected and refracted rays are perpendicular to each other, the index of refraction of glass is
 - $\frac{1}{2}$
 - $\sqrt{3}/2$
 - $3/2$
 - 1.732
- Bohr's postulates correctly measures
 - radius of an atom
 - angular momentum
 - Rydberg's constant
 - None
- Boron rods in nuclear reactors are used for
 - absorb excess electrons
 - absorb alpha particle
 - slow down reaction
 - speed of reaction
- Two waves $y_1 = a \sin(\omega t - kx)$ and $y_2 = a \cos(\omega t - kx)$ are superposed. Then amplitude of resultant wave is
 - $2a$
 - 0
 - a
 - $\sqrt{2} a$
- A glass convex lens placed in liquid behaves like a concave lens. If μ_g and μ_l be the refractive indices of glass and liquid w.r.t. air respectively, then
 - $\mu_g = \mu_l$
 - $\mu_g > \mu_l$
 - $\mu_g < \mu_l$
 - $\mu_g = 2\mu_l$

13. A particle of charge q and mass m is suspended from a massless string in a horizontal electric field of magnitude E , then angle θ made by string with vertical is
 A. $\cot^{-1}(qE/mg)$ B. $\tan^{-1}(qE/mg)$
 C. $\tan^{-1}(qE/m)$ D. $\tan^{-1}(mg/mE)$
14. In a circuit, the value of alternating current measured by ammeter is 10A. Its amplitude will be
 A. 10A B. 20A C. 14.14A D. 7.07A
15. If the magnetic moment of the atoms of substance is zero, then the substance is called
 A. diamagnetic B. ferromagnetic C. paramagnetic D. antiferromagnetic
16. An intrinsic semiconductor is doped with acceptor impurities, then
 A. Electron concentration increases. B. Electron concentration decreases.
 C. Hole concentration increases. D. Hole concentration decreases.
17. Bohr's atomic theory can be applied to
 A. Hydrogen atom only B. Hydrogen and singly ionized Helium atom
 C. Hydrogen and its isotopes D. All types of atoms
18. Organic compounds are very large in number. This is due to
 A. small size of carbon B. valency of carbon
 C. special property of carbon known as catenation D. all of these
19. IUPAC name of

$$\begin{array}{c} \text{H} \\ | \\ \text{H} - \text{C} = \text{CHCN} \end{array}$$
 is
 A. Ethenenitrile B. Vinyl cyanide
 C. Cyanoethene D. 2-propenenitrile
20. Number of isomeric forms of $\text{C}_7\text{H}_9\text{N}$ having benzene ring will be
 A. 7 B. 6 C. 5 D. 4
21. For which of the following species Bohr's theory is not applicable?
 A. Be^{3+} B. Li^{2+} C. He^{2+} D. H
22. Which of the following is largest ion?
 A. Na^+ B. Mg^{2+} C. O_2 D. F
23. The oxidation number of cobalt in $\text{K}[\text{Co}(\text{CO})_4]$ is
 A. +1 B. -1 C. +3 D. -6
24. When one ampere current flows for 1 second through a conductor the quantity of electricity is called.
 A. Faraday B. Coulomb C. EMF D. 1 ohm
25. What is the volume of water to be added to N/2 HCl to prepare 500cm^3 of N/10 solution?
 A. 200cm^3 B. 300cm^3 C. 400cm^3 D. 500cm^3

Mathematics Model Question for BE Entrance 2025 [25x2=50]

1.

- a) b) c) d)

2. The value of $\tan 9^\circ - \tan 63^\circ - \tan 27^\circ + \tan 81^\circ =$

- a) 2 b) 4 c) 1 d) 0

3. The expression $\sin^2 \theta$ is positive if

- a) $x = -y$ b) $x = y$ c) $x > y$ d) $x < y$
 $2q$

4. Which of the following is true?

- a) $\sin 1^\circ > \sin 1^\circ$ b) $\sin 1^\circ < \sin 1^\circ$ c) $\sin 1^\circ = \sin 1^\circ$ d) None

5. The minimum value of $|\sin x|$ and $|\sec x|$ are

- a) 1, 1 b) -1, 1 c) 0, 1 d) 2, 1

6. The period of $\sin^4 x + \cos^4 x$ is

- a) π b) c) d)

7. Derivative of an even function $f(x)$ is

- a) even function b) odd function c) neither even nor odd d) none

8. The value of $16R^2 r_1 r_2 r_3 =$

- a) Δ^2 b) $a^2 b^2 c^2$ c) abc d) s^2

9. In ΔABC , if $a=13$, $b=14$ and $c=15$ then the radius of Ex-circle(r_1) is :

- a) 4 b) 10.5 c) 13.5 d) 7.5

10. The value of

- a) b) c) d)

11. The value of

- a) R^2 b) S^2 c) r^2 d) Δ^2

12. The side of a Δ are $a, b,$ then the greatest angles is:

- a) 30° b) 60° c) 90° d) 120°

13. If the angle of a triangle are in the ratio 1:2:3 then the ratio of the sides are

- a) b) c) d) 1:2:3

14. In ΔABC , $\operatorname{Cosec} A =$

- a) b) c) d)

15. In any triangle



a) $\frac{b-c}{b^2+c^2}$ b) $\frac{y}{x}$ c) $-\frac{x}{y}$ d) $\frac{b^2-c^2}{a^2}$

16. $\tan A$ can be expressed as .

a) $\frac{\Delta}{a^2-b^2}$ b) $\frac{b}{2\Delta}$ c) $\frac{4\Delta}{b^2+c^2-a^2}$ d) none

17. The value of $(a+b+c)(\tan A/2 + \tan B/2) =$

a) $2c \cot C/2$ b) $2b \cot B/2$ c) $2a \cot A/2$ d) none

18. The value of $\frac{\cos^2 A/2}{a} + \frac{\cos^2 B/2}{b} + \frac{\cos^2 C/2}{c} =$

a) $\frac{R}{\Delta}$ b) $\frac{abc}{R}$ c) $\frac{b}{\Delta}$ d) $\frac{S}{abc}$

19. The value of $\sin(\cot^{-1} x) =$

a) $\sqrt{1+x^2}$ b) x c) $\frac{1}{x\sqrt{1-x^2}}$ d) $\frac{1}{\sqrt{1+x^2}}$

20. The value of $\operatorname{Cosec}^{-1}\{1/2\} =$

a) 30° b) 60° c) 90° d) not defined

21. The principal value of $\tan^{-1}\{\tan \pi/4\} =$

a) $-\pi/4$ b) $\pi/4$ c) $3\pi/4$ d) $-3\pi/4$

22. The principal value of $\sin^{-1}(-\sqrt{3}/2)$ is:

a) $-2\pi/3$ b) $-\pi/3$ c) $4\pi/3$ d) $5\pi/3$

23. The principal value of $\cos^{-1}\left\{\cos\left(\frac{7\pi}{6}\right)\right\}$

a) $7\pi/6$ b) $5\pi/6$ c) $\pi/3$ d) none

24. If $A = \{1, 3, 5, 7, 9\}$ and $B = \{2, 3, 5, 7, 11\}$ the $(A \Delta B) =$

a) $\{1, 9\}$ b) $\{2, 11\}$ c) $\{1, 9, 11\}$ d) $\{1, 2, 9, 11\}$

25. If $A = \{x : x \text{ is a multiple of } 3\}$ and $B = \{x : x \text{ is a multiple of } 5\}$ then $(A - B)$ is:

a) $\bar{A} \cap B$ b) $A \cap B$ c) $\bar{A} \cap \bar{B}$ d) $A \cap \bar{B}$

16. The oxidation number of carbon in CH_2O is
 a) -2 b) +2 c) 0 d) +4
17. In which of the following compounds transition metal is in oxidation state zero?
 a) $[\text{Co}(\text{NH}_3)_6]\text{Cl}_2$ b) $[\text{Fe}(\text{H}_2\text{O})_6]\text{SO}_4$
 c) $[\text{Fe}(\text{CO})_5]$ d) $[\text{Fe}(\text{H}_2\text{O})_3](\text{OH})_4$
18. When KMnO_4 is reduced with oxalic acid in acid medium, the oxidation number of Mn changes from
 a) 7 to 4 b) 6 to 4 c) 7 to 2 d) 4 to 2
19. In hemoglobin the iron is in
 a) +2 oxidation state b) +1 oxidation state
 c) +3 oxidation state d) +4 oxidation state
20. The root mean square velocity of one mole of a monoatomic gas having molar mass M is $V_{\text{r.m.s}}$.
 s4 the relation between average kinetic energy (E) of the gas and $V_{\text{r.m.s}}$ is
 a) $V_{\text{r.m.s}} = \sqrt{\frac{3RT}{2M}}$ b) $V_{\text{r.m.s}} = \sqrt{\frac{2RT}{3M}}$ c) $V_{\text{r.m.s}} = \sqrt{\frac{3RT}{M}}$ d) $V_{\text{r.m.s}} = \sqrt{\frac{E}{3M}}$
21. The triple point of water is
 a) 172K b) 273K c) 298K d) 373K
22. The liquefied metal, which expands on solidification. Is
 a) Ga b) Al c) Zn d) Cu
23. Water is a/an
 a) Aprotic solvent b) Amphoteric solvent
 c) Protophilic solvent d) Protophobic solvent
24. By increase the temperature of a liquid, its vapour pressure
 a) Increase b) Decrease
 c) Remains constant d) becomes zero
24. Van't Hoff factor for an electrolyte is
 a) >1 b) <1 c) $=1$ d) none
26. Which of the following oxides is amphoteric in character?
 a) CaO b) CO_2 d) SiO_2 e) SnO_2
27. The PH of a solution, whose hydronium ion concentration is 6.2×10^{-9} , is
 a) 3.17 b) 5.15 c) 6.21 d) 8.21
28. The PH value of an acid is 5 and concentration is 1M. What is the value of K_a for the acid?
 a) 10^{-7} b) 10^{-5} c) 10^{-10} d) 10^{-8}
29. The solubility of PbCl_2 is
 a) $\sqrt{K_8}$ b) $\sqrt[3]{K_8}$ c) $\sqrt[3]{\frac{K_8}{4}}$ d) $\sqrt[3]{\frac{K_8}{2}}$
30. Which of the following changes will shift the reaction in forward direction?
 a) Increase in total pressure
 b) Increase in temperature
 c) Increase in concentration of I_2
 d) Decrease in concentration of I_2

English Model Question for BE Entrance 2025 [15+5=20]

1. She said to me, "let me go ".
 a) She said to me let me go. b) She requested me to let me go.
 c) she requested me letting her go. d) She requested me to let her go.
2. Nobody hurt him.
 a. He was hurt b. He was hurted
 c. he wasn't hurt by nobody d. he was not hurt
3. I'm to teach you.
 a. You have to be taught b. You should be taught.
 c. You are to be taught d. You are to be teached.
4. We make Butter from Milk.
 a. the, x b. x, the c. a, the d. no articles
5. Give Synonym of Perennial.
 a. Perpetual b. Stop c. Temporary d. Active
6. She beckoned to enter the room.
 a. told b. said c. signaled d. advised
7. She was baffled by the confusing road signs.
 a. confused b. nebulous c. perplexed d. all
8. A book of synonym's and antonym's is :
 a) Dictionary b) thesaurus
 c) encyclopedia d) autobiography
9. A person who wastes his money on luxury is.....
 a) luxuriant b) extravagant c) luxurious d) stingx
10. He has in the best of health; his death was really
 a) Pitiable b) natural c) surprising d) expected
11. Prabha's English is excellent. She speaks.....
 a. English perfect b. perfectly English
 c. perfect English d. English appropriately
12. Causes and effect relationship
 Example: Education : Development
 a. Man : Speech b. Game : Play
 c. Nutrition : Health d. Child : Growth
13. Creature and living place relationship.
 Example: Bee : Hive
 a. Duck : Drake b. Warm : Tepid
 c. Carcass : Corpse d. Monk : Monastery
14. Would you mind if I You the monkey I owe your body.
 a. do not give b. did not give
 c. will not give d. wouldn't give
15. If the door is locked, what i do ?
 a. have b. do c. can d. shall
16. Write a paragraph about the impact of COVID-19 in Education system in Nepal.