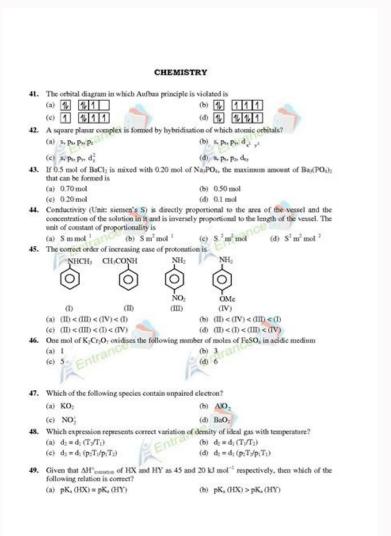
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Bitsat 2010 question paper with solutions pdf



HT-JEE 2010 Physics Paper II

PART III - Physics

SECTION -1

Single Correct Choice Type

This Section contains 6 multiple choice questions. Each question has four choices (A), (B), (C), and (D) out of which ONLY ONE is correct.

39. A hollow pipe of length 0.8 m is closed at one end. At its open end a 0.5 m long uniform string is vibrating in its second harmonic and it resonates with the fundamental frequency of the pipe. If the tension in the wire is 50 N and the speed of sound is 320 ms⁻¹, the mass of the string is (A) 5 grams (B) 10 grams (C) 20 grams

39. **(B)** Fundamental frequency of pipe is given by $t_p = v/4l_p (v = 320 \text{ ms}^{-1})$ Second harmonic of string is given by $f_1 = \sqrt{(T/\mu)/I_1}$ Both are same $f_1 = f_2$ $\Rightarrow m = 71, /2500 = 10 \text{ grm}$

40. Abiconvex lens of focal length 15 cm is in front of a plane mirror. The distance between the lens and the mirror is 10 cm. A small object is kept at a distance of 30 cm from the lens. The final

(A) Virtual and at a distance of 16 cm from the mirror (B) Real and at a distance of 16 cm from the mirror

(C) Virtual and at a distance of 20 cm from the mirror

(D) Real and at a distance of 20 cm from the mirror

Using lens formula $\{(1/v) + (1/v)\} = 1/f$ $\{(1/v)+(1/30)=1/15$ ⇒ v = 30 cm So, object for plane mirror is 20 cm from it towards right. ⇒ Image formed = 20 cm left from plane mirror. This behaves as virtual object for lens at a distance of 10 cm left. using lens formula, (1/v') + (1/u) = 1/f

 \Rightarrow (1/v')+(1/-10)=1/15 \Rightarrow v'=6 cm So, image formed is real & at a distance 16 cm from mirror.

41. A Vernier calipers has 1 mm marks on the main scale. It has 20 equal divisions on the Vernier scale which match with 16 main scale divisions. For this Vernier calipers, the least count is: (A) 0.02 mm (B) 0.05 mm (C) 0.1 mm

41. (D) 20 VSD = 16 MSD

: 1 VSD = (16 / 20) MSD = (4 / 5) MSD LC = 1 VSD - 1 MSD = (1/5) = 0.2 mm

42. A tiny spherical oil drop carrying a net charge q is balanced in still air with a vertical uniform electric field of strength $\{(81\pi/7) = 10^9\} \text{ Vm}^{-1}$. When the field is switch off, the drop is observed to fall with terminal velocity 2×10^{-3} ms⁻¹. Given g = 9.8 ms⁻², viscosity of the air = 1.8 × 10⁻⁵ Ns m⁻² and the density of oil = 900 kg m⁻³, the magnitude of q is

```
\Rightarrow 1+1+1+2(0+1.1\cos\beta+1.1\cos\alpha)=1
\Rightarrow 2(\cos\alpha + \cos\beta) = -2 \Rightarrow \cos\alpha + \cos\beta = -1
```

35. (c) Area of triangle =
$$\frac{1}{2} |\overrightarrow{AB} \times \overrightarrow{AC}| = \frac{1}{2} |(-\vec{a}) \times (-\vec{a})| = \frac{1}{2} |(-\vec{a} \times \vec{c} + \vec{c} \times \vec{a} + \vec{a} \times \vec{b})|$$

 $[\exists x + y = 1, \therefore 1 - x = y]$

= nx[(n-1)x+1] = nx[nx-x+1] = nx[nx+y]37. (c)

38. (a) 39. (c) f'€ € -a € -b 3

 $\therefore f' \bullet = 0 \text{ for } x = a, b$

Since $f' \in \text{does not change sign as we pass through the point } x = a$ $[-4 - a^{\infty} \ge 0 \text{ for all whether } x < a \text{ or } x > a]$

x = a is neither a point of maxima nor a point of minima.

40. (b) Let $f - x^2 + x + 1$

f (is monotonically increasing in [0, 1]

∴ minimum value of x² + x + 1

41. (b)

42. (b)
$$\sin^{-1}\left(\frac{x}{5}\right) + \csc^{-1}\left(\frac{5}{4}\right) = \frac{\pi}{2} \implies \sin^{-1}\left(\frac{x}{5}\right) + \cos^{-1}\left(\frac{3}{5}\right) = \frac{\pi}{2} \implies x = 3$$

43. (b) : Centre of circle is (h, k) and x-axis is tangent.

Second Year B. Pharmacy Examination, 2010 2.6: PHARMACOGNOSY - I (2008 Course)

Time: 3 Hours Max. Marks: 80

> Instructions: Question Nos. 1 and 5 are compulsory. Solve any two questions from the remaining in each Section.

SECTION - I

1	Answer	Burn Burn	BELLEVIEW STREET, SOUTH	ш
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- a) What is Stomatal number? Give its significance.
- b) What is Papyrus Ebers?
- c) Define gum and mucilage.
- d) Differentiate between Organised drug and Unorganised drug.
- e) Describe the various shapes of bark.
- 2. A) Describe the morphology and anatomy of leaves. 7
- B) Why is determination of moisture content of crude drug is necessary? Enlist the various methods of its determination. Explain Karl Fischer's method of determination of moisture content.
- 3. A) Enlist the various methods of evaluation of crude drug. Add a note on Physical methods of evaluation.
- B) How intentional adulteration is done and why?
- 15
- 4. Write short notes on (any three):
 - a) Honey
 - b) Secondary metabolites
 - c) Herbal dietary supplements
 - d) Collection of crude drugs.

P.T.O.

8

8

7

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MATHEMATICS

- 1. The equation $3^{x-1} + 5^{x-1} = 34$ has
 - (a) no solution (c) two solutions
- (b) one solution
- (d) more than two solutions
- If the pa, qa and raterms of an AP, are in G.P. then the common ratio of the G.P. is -

- (d) none of these
- 3. If three positive real numbers a, b, c (c > a) are in H.P., then log(a+c) + log(a-2b+c) is equal to
- (a) 2 log(c-b)
- (b) $2\log(a+c)$ (c) $2\log(c-a)$
- (d) log a + log b + log c

- The coefficient of the term independent of x in the expansion of $(1+x+2x^3)\left(\frac{3}{2}x^2-\frac{1}{3x}\right)^y$ is
 - (a) 1/3
- (b) 19/54
- (c) 17/54
- (d) 1/4
- The sum of the series $C_0^2 C_1^2 + C_2^2 \dots + (-1)^n C_n^2$, where n is an even integer is (b) (-1)a.2aC, (c) (-1)a.2aC, (d) none of these
 - (a) 2a C.

- 7. The coefficient of $x^k (0 \le k \le n)$ in the expansion of $E = 1 + (1 + x) + (1 + x)^2 + \dots + (1 + x)^n$ is
- 8. The expression $(x+(x^3-1^{1/2})^5+(x-(x^3-1^{1/2})^5)$ is a polynomial of degree (a) 5 (d) 8
- The coefficient of x^{10} in the expansion of $(1+x^2-x^3)^8$ is
 - (a) 476

- (d) 528
- 10. If $\Delta = \begin{vmatrix} -x & a & b \\ b x & a \\ a & b & -x \end{vmatrix}$, then, a factor of Δ is

 (a) $x^2 (a+b)x + a^2 + b^2 ab$ (b) $x^2 (a-b)x + a^2 + b^2 + ab$ (c) $x^2 + (a+b)x + a^2 + b^2 ab$ (d) none of these

(a) a-1 C_{k-1} (b) a C_k

- 11. The solution set of the inequality $4^{-x+0.5} 7.2^{-x} 4 < 0 (x \in \mathbb{R})$ is

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