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ANSWER KEY HPCET-2016 HELD ON 14-05-2016 (10:00 AM TO 1:00 PM)

	PHYSICS	PHYSICS	CHEMISTRY	CHEMISTRY			
1	A	26	A	51	B	76	D
2	B	27	A	52	B	77	A
3	D	28	B	53	D	78	C
4	B	29	A	54	C	79	B
5	A	30	D	55	C	80	A
6	D	31	B	56	B	81	D
7	D	32	C	57	C	82	C
8	A	33	A	58	B	83	C
9	A	34	A	59	C	84	A
10	C	35	D	60	C	85	B
11	C	36	C	61	C	86	C
12	B	37	A	62	B	87	A
13	A	38	C	63	B	88	B
14	C	39	D	64	C	89	B
15	A	40	A	65	C	90	B
16	D	41	A	66	A	91	D
17	B	42	D	67	D	92	B
18	C	43	D	68	B	93	C
19	C	44	B	69	D	94	C
20	A	45	A	70	A	95	D
21	D	46	B	71	D	96	B
22	A	47	C	72	A	97	B
23	A	48	B	73	C	98	D
24	D	49	D	74	A	99	A
25	C	50	A	75	A	100	B

30. एडॉइल डियाइस में स्क्रीन लॉक विकल्पों में से एक है।

- (A) ब्राउजर (Browser)
(B) यूसी ब्राउजर (UC Browser)
(C) हॉटस्पॉट (Hotspot)
(D) स्वाइप (Swipe)

31. जब आप विंडोज 10 में एक नया फोल्डर बनाते हैं, तो उस फोल्डर का डिफॉल्ट नाम क्या होता है?

- (A) माय फोल्डर (My Folder)
(B) न्यू फोल्डर (New Folder)
(C) फोल्डर (Folder)
(D) विंडोज फोल्डर (Windows Folder)

32. निम्नलिखित में से कौन ऑनलाइन बैंकिंग का लाभ नहीं है?

- (A) आप इसे किसी भी समय (24x7) उपयोग कर सकते हैं।
(B) इसमें दुराचारी की तुलना में कम समय लगता है।
(C) यह धन को तुरंत प्राप्तकर्ता के खाते में स्थानांतरित करता है।
(D) आप सिस्टम को डीमॉडयूलेट और मॉडयूलेट कर सकते हैं।

33. निम्नलिखित में से सही कथन का चयन करें -

- (A) आप एमएस - ऑफिस में दस्तावेज को पीडीएफ (PDF) प्रारूप में सेव कर सकते हैं।
(B) आप F6 कुंजी का उपयोग करके एक प्रस्तुति शुरू कर सकते हैं।
(C) आप एमएस - वर्ड 2010 में फॉर्मूला बार का उपयोग करके एक फॉर्मूला लिख सकते हैं।
(D) आप एमएस - ऑफिस 2010 में पेज ओरिएंटेशन को बोल्ट सेट कर सकते हैं।

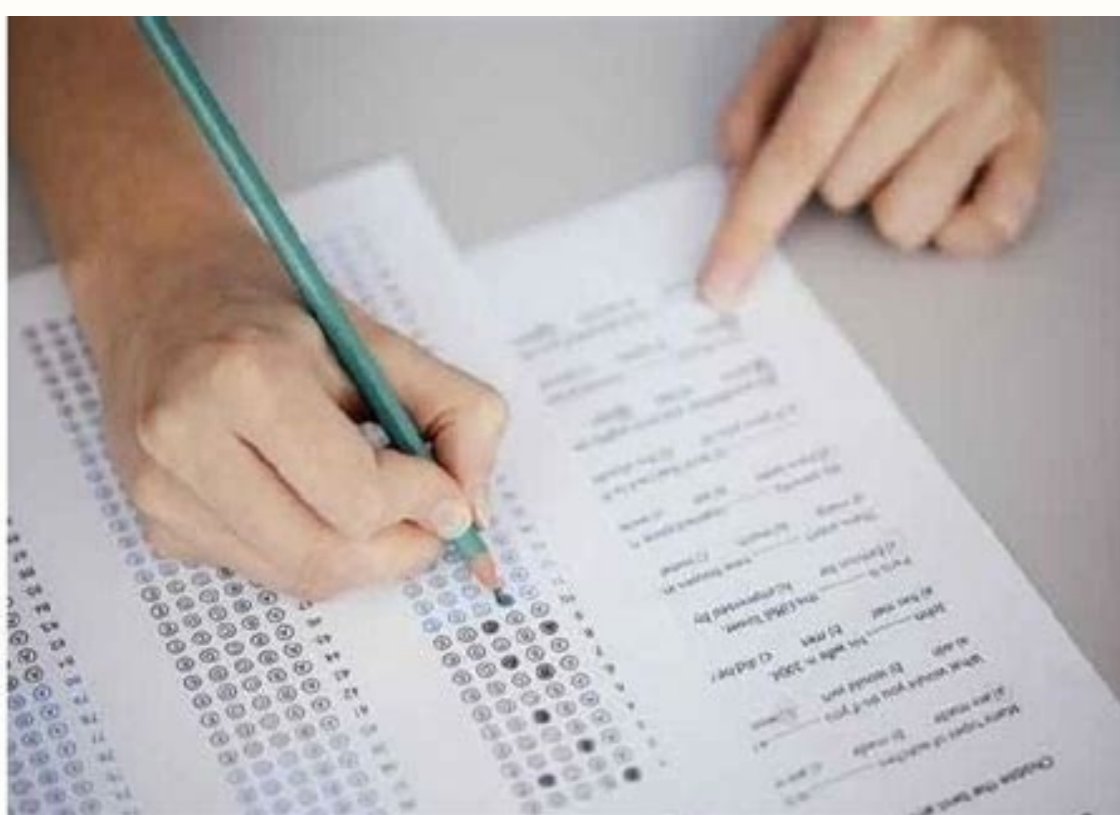
34. एमएस - वर्ड 2010 में एक प्रकार का पैराग्राफ अलाइनमेंट (alignment) है।

- (A) पोर्ट्रेट (Portrait)
(B) जस्टिफाई (Justify)
(C) इटैलिक (Italic)
(D) इंडेंट (Indent)

35. एक वेब पेज जो किसी वेबसाइट को खोलने पर सबसे पहले खुलता है, को _____ कहा जाता है।

- (A) हाउस पेज (House Page)
(B) होम पेज (Home Page)
(C) पीडीए (PDA)
(D) वायरस (Virus)

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7. The company will upgrade _____ computer systems next week.

1. there
2. their
3. its
4. it's

8. Clara _____ three thousand words for her essay.

1. have wrote
2. has wrote
3. have written
4. has written

9. You have too many _____ but few time to prove you're right.

1. hypothesis
2. hypotheses
3. hypphotesises
4. hypothesess

10. Neither Sarah nor Tina _____ the crime yesterday.

1. witness
2. witnesses
3. witnessed
4. witnessing

11. You do like going to the party alone. _____ you?

1. Does
2. Doesn't
3. Do
4. Don't

12. We had our house _____ in yellow.

1. painting
2. painted
3. paint
4. to paint

13. He has been exercising but his immune system was steadily _____.

1. weak
2. weaken
3. weakened
4. weakening

CBSE-XII-2017 EXAMINATION

- (a) The value displaced by rupali are-
- (i) Awareness regarding about the adverse effect of these carcinogens in foods.
 - (ii) She is concern for the health and has feeling of humanity.
- (b) The polysaccharide component of carbohydrates is commonly by present in bread is starch.
- (c) "The two types of secondary structure of proteins are α -helix β -Sheet"
- (d) "Vitamins B & C are water soluble vitamin"

24. (a) Account for the following :
- (i) Transition metals show variable oxidation states.
 - (ii) Zn, Cd and Hg are soft metals.
 - (iii) E° value for the Mn^{3+}/Mn^{2+} couple is highly positive (+1.57 V) as compared to Cr^{3+}/Cr^{2+} .
- (b) Write one similarity and one difference between the chemistry of lanthanoid and actinoid elements.

OR

- (a) Following are the transition metal ions of 3d series:
 Ti^{4+} , V^{2+} , Mn^{3+} , Cr^{3+}
(Atomic numbers: Ti = 22, V = 23, Mn = 25, Cr = 24)

Answer the following:

- (i) Which ion is most stable in an aqueous solution and why?
- (ii) Which ion is a strong oxidising agent and why?
- (iii) Which ion is colourless and why?

(b) Complete the following equations:

- (i) $2MnO_4^- + 16H^+ + 5S^{2-} \longrightarrow$
- (ii) $KMnO_4 \xrightarrow{heat} \rightarrow$

Solution: (a)

- (i) In case of transition elements and $(n-1)d$ electron both participate in bonding due to less energy difference when ns electron take part in bonding they exhibit lower oxidation state while in case of higher O.S. $(n-1)d$ and ns e^0 both involve in bonding.
- (ii) Transition elements are hard & have high M.P. & B.P. as they exhibit two types of bonding both covalent and metallic due to which constituent particles are tightly packed while group 12 element (Zn, Cd, Hg) do not exhibit covalency bonding as their $(n-1)d$ is fully filled so they are soft.
- (iii) E° value for the Mn^{3+}/Mn^{2+} is high due to the fact that Mn^{2+} (d^5) more stable due to half-filled configuration while low for chromium due to stability of Cr^{3+} , therefore Cr^{3+} cannot reduce to Cr^{2+} .

(b) Similarity: -

- * Both series elements exhibit mainly +3 oxidation state"
- * Both show magnetic and spectral properties.

Difference: -

- | | |
|--------------------------------------|--|
| Lanthanoids | Actinoids |
| * Less tendency of complex formation | High tendency of complex formation |
| * Do not form oxo cations | Form oxo cations eg: $-UO_2^{+2}$ etc. |

OR

(a)

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