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Section 1 - Paper I General Knowledge and Current Affairs

No. of Questions: 15

1) In November 2021, the Chief Minister of Odisha laid the foundation stone for Shreemandira Parikrama project (Heritage Corridor project) in which of the following cities?

- A) Puri
- B) Cuttack
- C) Deogarh
- D) Gajapati

1) ନଭେମ୍ବର 2021 ରେ, ଓଡ଼ିଶାର ମୁଖ୍ୟମନ୍ତ୍ରୀ ଶ୍ରୀମନ୍ଦିର ପରିକ୍ରମା ପ୍ରକଳ୍ପ (ହେରିଟେଜ୍ କୋରିଡର ପ୍ରକଳ୍ପ) ପାଇଁ ନିମ୍ନ ସହର ମଧ୍ୟରୁ କେଉଁଠାରେ ଭିତ୍ତିପ୍ରସ୍ତର ସ୍ଥାପନ କରିଥିଲେ?

- A) ପୁରୀ
- B) କଟକ
- C) ଦେଓଗଡ଼
- D) ଗଜପତି

2) In September 2021, Bhupendrabhai Patel was sworn in as the Chief Minister of which of the following states after the incumbent CM resigned?

- A) Rajasthan
- B) Madhya Pradesh
- C) Gujarat
- D) Chattisgarh

2) ସେପ୍ଟେମ୍ବର 2021 ରେ, ପଦଧାରୀ ମୁଖ୍ୟମନ୍ତ୍ରୀ ଇସ୍ତଫା ଦେବା ପରେ ଭୂପେନ୍ଦ୍ରଭାଇ ପଟେଲ ନିମ୍ନଲିଖିତ କେଉଁ ରାଜ୍ୟର ମୁଖ୍ୟମନ୍ତ୍ରୀ ଭାବରେ ଶପଥ ଗ୍ରହଣ କରିଥିଲେ?

- A) ରାଜସ୍ଥାନ
- B) ମଧ୍ୟପ୍ରଦେଶ
- C) ଗୁଜୁରାଟ
- D) ଛତିଶଗଡ଼

3) Which of the following is the important use of calculating Purchasing Power Parity?

- A) Comparing the Balance of Trade between different countries
- B) Calculating Economic benefits derived from Trade
- C) Comparing differences in living standards among nations
- D) Understanding the Index of Sustainable Development

3) କ୍ରୟ ଶକ୍ତି ସମତା ହିସାବ କରିବାର ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ବ୍ୟବହାର ଅଟେ?

- A) ବିଭିନ୍ନ ଦେଶ ମଧ୍ୟରେ ବାଣିଜ୍ୟର ସନ୍ତୁଳନ ତୁଳନା କରିବା
- B) ବାଣିଜ୍ୟରୁ ଉତ୍ପନ୍ନ ଅର୍ଥନୈତିକ ଲାଭ ଗଣନା କରିବା
- C) ରାଷ୍ଟ୍ରମାନଙ୍କ ମଧ୍ୟରେ ଜୀବନଧାରଣର ପାର୍ଥକ୍ୟ ତୁଳନା କରିବା
- D) ଧାରଣୀୟ ବିକାଶର ସୂଚକଙ୍କ ବୁଝିବା

4) Which of the following vitamins is commonly known as Folate?

- A) Vitamin B9
- B) Vitamin B12
- C) Vitamin B6
- D) Vitamin B2

4) ନିମ୍ନଲିଖିତ ଭିଟାମିନ୍ ମଧ୍ୟରୁ କେଉଁଟି ସାଧାରଣତଃ ଫୋଲେଟ୍ ଭାବରେ ଜଣାଶୁଣା ।

- A) ଭିଟାମିନ୍ B9
- B) ଭିଟାମିନ୍ B12
- C) ଭିଟାମିନ୍ B6
- D) ଭିଟାମିନ୍ B2

5) The First Anglo Sikh War took place during which of the following periods?

- A) 1723 – 1724
- B) 1814 – 1815
- C) 1745 – 1746
- D) 1845 – 1846

5) ପ୍ରଥମ ଆଙ୍ଗ୍ଲୋ ଶିଖ୍ ଯୁଦ୍ଧ, ନିମ୍ନଲିଖିତ ଅବଧି ମଧ୍ୟରୁ କେଉଁ ସମୟରେ ହୋଇଥିଲା?

- A) 1723 – 1724
- B) 1814 – 1815
- C) 1745 – 1746
- D) 1845 – 1846

6) Sarala Devi, was a famous freedom fighter of Odisha and actively participated in National Movement of India. She was born in which district of Odisha state?

- A) Cuttack
- B) Balasore
- C) Angul
- D) Koraput

6) ସାରଳା ଦେବୀ, ଓଡ଼ିଶାର ଜଣେ ପ୍ରସିଦ୍ଧ ସ୍ୱାଧୀନତା ସଂଗ୍ରାମୀ ଥିଲେ ଏବଂ ଭାରତର ଜାତୀୟ ଆନ୍ଦୋଳନରେ ସକ୍ରିୟ ଅଂଶଗ୍ରହଣ କରିଥିଲେ। ସେ ଓଡ଼ିଶାର କେଉଁ ଜିଲ୍ଲାରେ ଜନ୍ମଗ୍ରହଣ କରିଥିଲେ?

- A) କଟକ
- B) ବାଲେଶ୍ୱର
- C) ଅନୁଗୁଳ
- D) କୋରାପୁଟ

7) Which of the following statement is/are True?

- A. Deccan Plateau is the highest plateau of India
 - B. The Ladakh plateau is the largest plateau of India
-
- A) Statement A is True and B is False
 - B) Statement A is False and B is True
 - C) Both the statements A and B are True
 - D) Both the statements A and B are False

7) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ବିବୃତିଟି ସତ୍ୟ ଅଟେ?

- A. ଡେକାନ୍ ମାଳଭୁମି ହେଉଛି ଭାରତର ସର୍ବୋଚ୍ଚ ମାଳଭୁମି
B. ଲଦାଖ ମାଳଭୁମି ହେଉଛି ଭାରତର ସବୁଠାରୁ ବଡ଼ ମାଳଭୁମି।

- A) ବିବୃତି A ସତ ଏବଂ B ମିଥ୍ୟା ଅଟେ
B) ବିବୃତି A ମିଥ୍ୟା ଏବଂ B ସତ୍ୟ ଅଟେ
C) ଉଭୟ ବିବୃତି A ଏବଂ B ସତ୍ୟ ଅଟେ
D) ଉଭୟ ବିବୃତି A ଏବଂ B ମିଥ୍ୟା ଅଟେ

8) What is the minimum age eligibility criteria for a member of Rajya Sabha to be elected as the Prime Minister of India?

- A) 25 years
B) 30 years
C) 32 years
D) 35 years

8) ରାଜ୍ୟସଭାର ଜଣେ ସଦସ୍ୟ ଭାରତର ପ୍ରଧାନମନ୍ତ୍ରୀ ଭାବରେ ନିର୍ବାଚିତ ହେବା ପାଇଁ ସର୍ବନିମ୍ନ ବୟସର ଯୋଗ୍ୟତା ମାନଦଣ୍ଡ କ'ଣ?

- A) 25 ବର୍ଷ
B) 30 ବର୍ଷ
C) 32 ବର୍ଷ
D) 35 ବର୍ଷ

9) Given below is a list of statements. Identify the CORRECT sequence in which they appear in the Preamble of the Indian Constitution.

- (i) Equality of status and of opportunity
(ii) Liberty of thought, expression, belief, faith and worship
(iii) Justice, social, economic and political

- A) (ii), (iii), (i)
B) (iii), (ii), (i)
C) (i), (ii), (iii)
D) (ii), (i), (iii)

9) ନିମ୍ନରେ ବିବୃତ୍ତିଗୁଡ଼ିକର ଏକ ତାଲିକା ଦିଆଯାଇଛି । ସଠିକ୍ କ୍ରମ ଚିହ୍ନଟ କରନ୍ତୁ, ଯେଉଁଥିରେ ଏହିଗୁଡ଼ିକ ଭାରତୀୟ ସମ୍ବିଧାନର ପ୍ରତ୍ନାବନାରେ ଦେଖାଯାଆନ୍ତି?

- (i) ସ୍ଥିତି ଏବଂ ସୁଯୋଗର ସମାନତା
- (ii) ଚିନ୍ତାଧାରା, ଅଭିବ୍ୟକ୍ତି, ବିଶ୍ୱାସ, ଆତ୍ମା ଏବଂ ପୂଜା କରିବାର ସ୍ୱାଧୀନତା
- (iii) ନ୍ୟାୟ, ସାମାଜିକ, ଅର୍ଥନୈତିକ ଏବଂ ରାଜନୈତିକ

- A) (ii), (iii), (i)
- B) (iii), (ii), (i)
- C) (i), (ii), (iii)
- D) (ii), (i), (iii)

10) In February 2022, the board of Tata Sons Pvt. Ltd has approved the re-appointment of which business executive as the Executive Chairman for a second five-year term?

- A) Vishal Sikka
- B) Aditya Birla
- C) N Chandrasekaran
- D) Rajesh Gopinathan

10) ଫେବୃଆରୀ 2022 ରେ, ଟାଟା ସନ୍ସ ପ୍ରାଇଭେଟ୍ ଲିମିଟେଡ୍ ର ବୋର୍ଡ୍ ସ୍ଥିତୀୟ ଥର ପାଞ୍ଚ ବର୍ଷର କାର୍ଯ୍ୟକାଳ ପାଇଁ କାର୍ଯ୍ୟନିର୍ବାହୀ ଅଧ୍ୟକ୍ଷ ଭାବରେ କେଉଁ ବ୍ୟବସାୟିକ କାର୍ଯ୍ୟନିର୍ବାହୀଙ୍କ ପୁନଃ ନିଯୁକ୍ତିକୁ ଅନୁମୋଦନ କରିଛି?

- A) ବିଶାଲ ସିକ୍କା
- B) ଆଦିତ୍ୟ ବିର୍ଲା
- C) N ଚନ୍ଦ୍ରଶେଖରନ୍
- D) ରାଜେଶ ଗୋପୀନାଥନ୍

11) Who among the following journalists authored the book titled 'Atal Bihari Vajpayee' that was launched in 2022?

- A) Rajdeep Sardesai
- B) Barkha Dutt
- C) Prannoy Roy
- D) Sagarika Ghose

11) ନିମ୍ନଲିଖିତ ସାମ୍ବାଦିକମାନଙ୍କ ମଧ୍ୟରୁ କିଏ 2022 ମସିହାରେ ପ୍ରକାଶିତ ହୋଇଥିବା 'ଅଟଳ ବିହାରୀ ବାଜପେୟୀ' ଶୀର୍ଷକ ପୁସ୍ତକ ରଚନା କରିଥିଲେ?

- A) ରାଜଦୀପ ସରଦେସାଲ
- B) ବରଖା ଦତ୍ତ
- C) ପ୍ରଣୟ ରୟ
- D) ସାଗରିକା ଘୋଷ୍ଟ

12) Which of the following schools have been set-up with respect to special focus on ST students?

- A) Navjeevan Vikas Vidyalaya
- B) Jagjeevan Ram Kanya Vidyalaya
- C) Kasturba Gandhi Balika Vidyalaya
- D) Ram Manohar Lohia Kendriya Vidyaneketan

12) ଏସଟି ଛାତ୍ରମାନଙ୍କ ଉପରେ ବିଶେଷ ଧ୍ୟାନ ଦେବା ସମ୍ବନ୍ଧରେ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ବିଦ୍ୟାଳୟ ସ୍ଥାପନ କରାଯାଇଛି?

- A) ନବଜୀବନ ବିକାଶ ବିଦ୍ୟାଳୟ
- B) ଜଗଜୀବନ ରାମ କନ୍ୟା ବିଦ୍ୟାଳୟ
- C) କସ୍ତୁରବା ଗାନ୍ଧୀ ବାଲିକା ବିଦ୍ୟାଳୟ
- D) ରାମ ମନୋହର ଲୋହିଆ କେନ୍ଦ୍ରିୟ ବିଦ୍ୟାନିକେତନ

13) A piece of blotting paper soaking ink can be explained through which of the following scientific processes?

- A) Viscosity
- B) Elasticity
- C) Vapour Pressure
- D) Capillary action

13) ନିମ୍ନଲିଖିତ ବୈଜ୍ଞାନିକ ପ୍ରକ୍ରିୟା ଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି କାଳି ଭିୟାଉଥିବା ଚୁଟିଂ କାଗଜକୁ ବ୍ୟାଖ୍ୟା କରାଯାଇପାରିବ?

- A) ସାନ୍ଦ୍ରତା
- B) ଛୁଟିଲାପକତା
- C) ବାଷ୍ପର ଚାପ
- D) କୌଣିକ କ୍ରିୟା

14) Who was the last Viceroy and First Governor-General of free India?

- A) Lord Mountbatten
- B) Lord Irwin
- C) Lord Linlithgow
- D) Lord Chelmsford

14) ମୁକ୍ତ ଭାରତର ଶେଷ ଭାଇସରାୟ ଏବଂ ପ୍ରଥମ ଗଭର୍ଣ୍ଣର-ଜେନେରାଲ୍ କିଏ ଥିଲେ?

- A) ଲର୍ଡ ମାଉଣ୍ଟବ୍ୟାଟେନ୍
- B) ଲର୍ଡ ଇରୱିନ୍
- C) ଲର୍ଡ ଲିନଲିଥ୍‌ଗୋ
- D) ଲର୍ଡ ଚେଲମ୍‌ସଫୋର୍ଡ

15) Which of the following mangrove forest is located on the estuary of the rivers Brahmani and Baitiarini meeting in the Bay of Bengal?

- A) Sundarbans
- B) Bhitarkanika
- C) Godavari-Krishna
- D) Bharatang

15) ବଙ୍ଗୋପସାଗରରେ ବ୍ରାହ୍ମଣୀ ଏବଂ ବୈତରଣୀ ନଦୀକୂଳରେ ମିଳିତ ଯାଏରୁ କେଉଁଠି ମାଙ୍ଗ୍ରୋଭ୍ ଜଙ୍ଗଲ ଅବସ୍ଥିତ?

- A) ସୁନ୍ଦରବନ
- B) ଭିତରକନିକା
- C) ଗୋଦାବରୀ-କୃଷ୍ଣା
- D) ଭାରତଙ୍ଗ

Section 2 - Paper I Reasoning Ability

No. of Questions: 10

16) Paddy's proposed average salary for July was ₹ 400 per day, but he was paid ₹ 11,160 for the whole month. What is the percentage drop in his average salary per day?

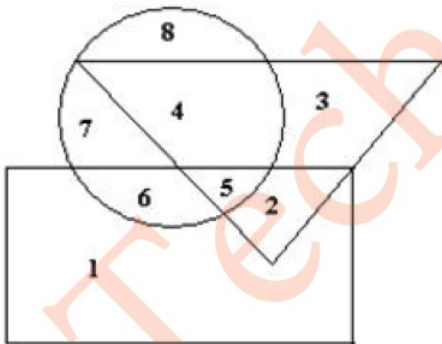
- A) 5%
- B) 10%
- C) 11.1%
- D) 15%

16) ଜୁଲାଇ ମାସ ପାଇଁ ପ୍ୟାଡିଙ୍କର ହାରାହାରି ବେତନ ଦିନ ପିଛା ₹ 400 ରହିଥିଲା କିନ୍ତୁ ତାଙ୍କୁ ସମୁଦାୟ ମାସ ପାଇଁ ₹ 11,160 ପୈଠ କରାଯାଇଥିଲା। ଦିନ ପିଛା ତାଙ୍କ ହାରାହାରି ବେତନରେ ଶତକଡ଼ା ହ୍ରାସ କେତେ ରହିଛି?

- A) 5%
- B) 10%
- C) 11.1%
- D) 15%

17) Study the diagram carefully and answer the question:

Here in this diagram the triangle represents doctors. The circle represents players. The rectangle represents artists.

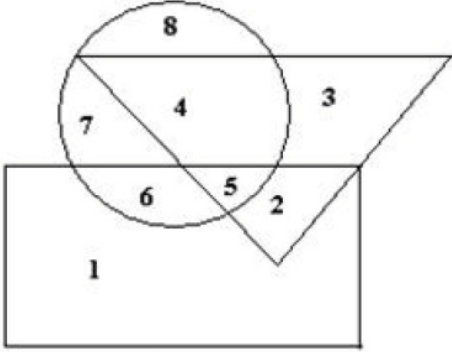


Which numbered space in the diagram represents doctors who are also artists only?

- A) 1
- B) 2
- C) 5
- D) 6

17) ନିମ୍ନରେ ଦିଆଯାଇଥିବା ଚିତ୍ରକୁ ଅଧ୍ୟୟନ କରନ୍ତୁ ଏବଂ ପ୍ରଶ୍ନର ଉତ୍ତର ଦିଅନ୍ତୁ :

ଏହି ଚିତ୍ରରେ ତ୍ରିଭୁଜ ଡାଇରମାନଙ୍କୁ ଉପସ୍ଥାପିତ କରୁଛି। ବୃତ୍ତ ଖେଳାଳିମାନଙ୍କୁ ଉପସ୍ଥାପିତ କରୁଛି। ଆୟତକ୍ଷେତ୍ର କଳାକାରମାନଙ୍କୁ ଉପସ୍ଥାପିତ କରୁଛି।



ଏହି ଚିତ୍ରରେ କେଉଁ ସଂଖ୍ୟା ଦ୍ୱାରା ଚିହ୍ନିତ ସ୍ଥାନ ସେହି ଡାଇରମାନଙ୍କୁ ସୂଚିତ କରୁଛି ଯେଉଁମାନେ କେବଳ କଳାକାର ଅଟନ୍ତି?

- A) 1
- B) 2
- C) 5
- D) 6

18) Ram is the father of Sushil and Kiran. Sushil is the son of Ram but Kiran is not the son of Ram. How is Kiran related to Ram?

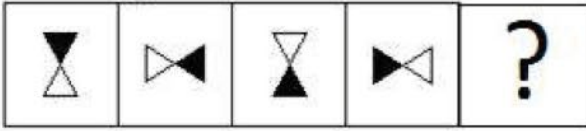
- A) Son in law
- B) Niece
- C) Mother
- D) Daughter

18) ରାମ ହେଉଛନ୍ତି ସୁଶିଳ ଏବଂ କିରଣଙ୍କର ବାପା। ସୁଶିଳ ହେଉଛନ୍ତି ରାମଙ୍କର ପୁଅ କିନ୍ତୁ କିରଣ ରାମଙ୍କର ପୁଅ ନୁହନ୍ତି। କିରଣ କିପରି ଭାବରେ ରାମଙ୍କ ସହିତ ସମ୍ପର୍କିତ?

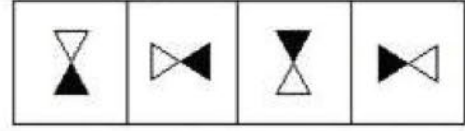
- A) କ୍ୱାଇଁ
- B) ଝିଆରୀ
- C) ମାଆ
- D) ଝିଅ

19) Which is the next figure in the series given below?. Select the right option from the Answer figure.

Problem Figure



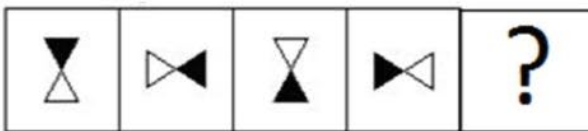
Answer Figure



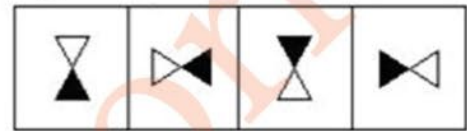
- A) A
- B) B
- C) C
- D) D

19) ନିମ୍ନରେ ଦିଆଯାଇଥିବା ସିରିଜ୍ ପାଇଁ ପରବର୍ତ୍ତୀ ଚିତ୍ର କେଉଁଟି ହେବ? ଉତ୍ତର ଚିତ୍ର ମଧ୍ୟରୁ ସଠିକ୍ ବିକଳ୍ପ ବାଛନ୍ତୁ।

ସମସ୍ୟା ଚିତ୍ର

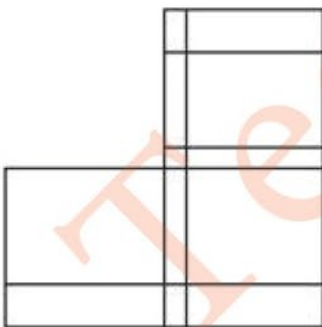


ଉତ୍ତର ଚିତ୍ର

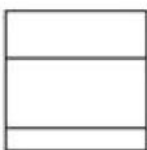


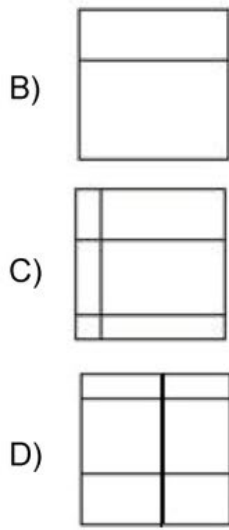
- A) A
- B) B
- C) C
- D) D

20) Choose one of the four options to complete the top left corner of this box.

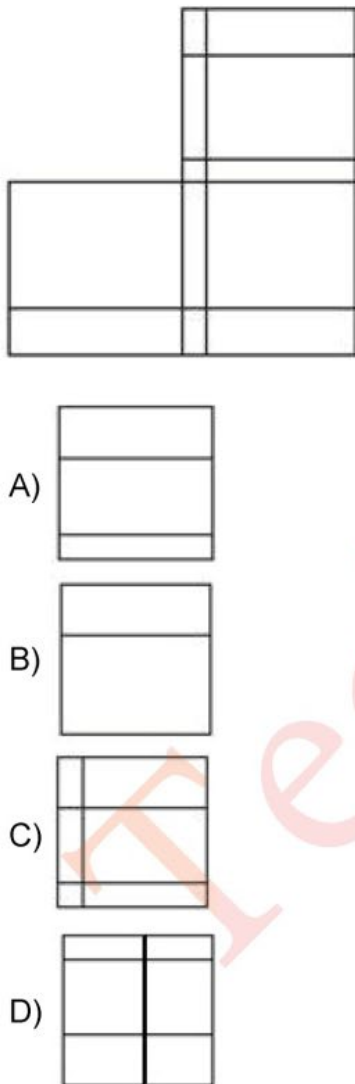


A)





20) ଏହି ବକ୍ସର ଶୀର୍ଷର ବାମକୋଣକୁ ସମ୍ପୂର୍ଣ୍ଣ କରିବା ପାଇଁ ଚାରୋଟି ବିକଳ୍ପ ମଧ୍ୟରୁ ଗୋଟିଏ ବାଛନ୍ତୁ।



21) The average of six numbers is 32. If each of the first three numbers is increased by 2 and each of the remaining three numbers is decreased by 4, then the new average is

- A) 35
- B) 31
- C) 34
- D) 30

21) ଛଅଟି ସଂଖ୍ୟାର ହାରାହାରି ହେଉଛି 32। ଯଦି ପ୍ରଥମ ତିନୋଟି ସଂଖ୍ୟାକୁ 2 ଲେଖାଏ ବୃଦ୍ଧି କରାଯାଏ ଏବଂ ଅବଶିଷ୍ଟ ତିନୋଟି ସଂଖ୍ୟାକୁ 4 ଲେଖାଏ ହ୍ରାସ କରାଯାଏ ତେବେ ନୂତନ ହାରାହାରି ହୋଇଥାଏ

- A) 35
- B) 31
- C) 34
- D) 30

22) The average age of a group of 40 students in a bus is 7 years. When the driver's age is included the average age is increased by one year. The age of the driver is:

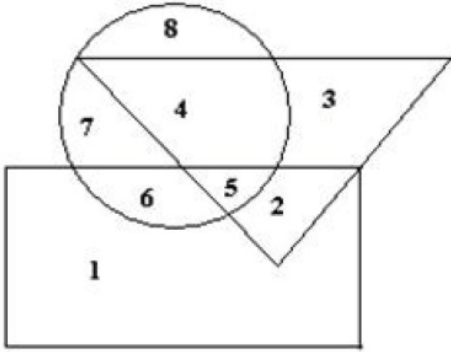
- A) 40 Years
- B) 45 Years
- C) 48 Years
- D) 50 Years

22) ଏକ ବସରେ ବସିଥିବା 40 ଜଣ ଛାତ୍ରଛାତ୍ରୀଙ୍କର ହାରାହାରି ବୟସ ହେଉଛି 7 ବର୍ଷ। ଯେତେବେଳେ ଡ୍ରାଇଭରଙ୍କ ବୟସକୁ ମଧ୍ୟ ଅନ୍ତର୍ଭୁକ୍ତ କରାଯାଏ ସେମାନଙ୍କର ହାରାହାରି ବୟସ ଏକ ବର୍ଷ ବଢ଼ିଯାଏ। ଡ୍ରାଇଭରର ବୟସ ହେଉଛି :

- A) 40 ବର୍ଷ
- B) 45 ବର୍ଷ
- C) 48 ବର୍ଷ
- D) 50 ବର୍ଷ

23) Study the diagram carefully and answer the question:

Here in this diagram the triangle represents doctors. The circle represents players. The rectangle represents artists.

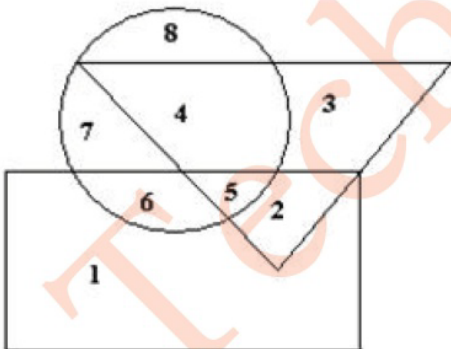


Which number represents doctors who are also players and artists?

- A) 4
- B) 5
- C) 6
- D) 7

23) ନିମ୍ନରେ ଦିଆଯାଇଥିବା ଚିତ୍ରକୁ ଅଧ୍ୟୟନ କରନ୍ତୁ ଏବଂ ପ୍ରଶ୍ନର ଉତ୍ତର ଦିଅନ୍ତୁ :

ଏହି ଚିତ୍ରରେ ଚିତ୍ରକୁ ଡାକ୍ତରମାନଙ୍କୁ ଉପସ୍ଥାପିତ କରୁଛି। ବୃତ୍ତ ଖେଳାଳିମାନଙ୍କୁ ଉପସ୍ଥାପିତ କରୁଛି। ଆୟତକ୍ଷେତ୍ର କଳାକାରମାନଙ୍କୁ ଉପସ୍ଥାପିତ କରୁଛି।



କେଉଁ ସଂଖ୍ୟାଟି ସେହି ଡାକ୍ତରମାନଙ୍କୁ ସୂଚିତ କରୁଛି ଯେଉଁମାନେ କି ଖେଳାଳି ଏବଂ କଳାକାର ମଧ୍ୟ?

- A) 4
- B) 5
- C) 6
- D) 7

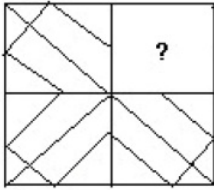
24) Pointing to a girl in the photograph, B said, "Her mother's brother is the only son of my mother's father, who has got only one daughter." How is the girl's mother related to B?

- A) Mother
- B) Sister
- C) Aunt
- D) Grandmother

24) ଜଣେ ବାଳିକାର ଫଟୋକୁ ଦେଖାଇ B କହିଲେ, "ତାଙ୍କ ମାଆଙ୍କର ଭାଇ ହେଉଛନ୍ତି ମୋ ମାଆଙ୍କର ବାପାଙ୍କର ଏକମାତ୍ର ପୁଅ, ଯାହାର ମାତ୍ର ଗୋଟିଏ ଝିଅ ଅଛି।" ତେବେ ବାଳିକାର ମାଆ Bଙ୍କ ସହ କିପରି ସମ୍ପର୍କିତ?

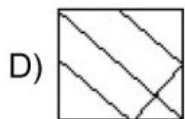
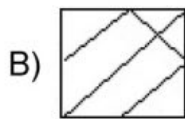
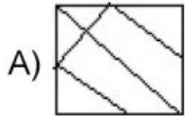
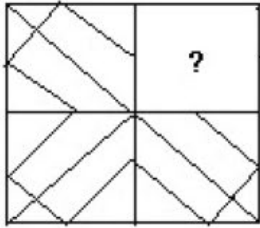
- A) ମାଆ
- B) ଭଉଣୀ
- C) ଖୁଡ଼ି
- D) ଜେଜେମାଆ

25) Which option best fits in the place of question mark?



- A)
- B)
- C)
- D)

25) କେଉଁ ବିକଳ୍ପଟି ପ୍ରଶ୍ନଚାରକ ଚିତ୍ର (?) ସ୍ଥାନ ପାଇଁ ସବୁଠାରୁ ଅଧିକ ଉପଯୁକ୍ତ ଅଟେ?



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Section 3 - Paper I Computer Literacy

No. of Questions: 10

26) What will happen if F12 is pressed in word document?

- A) It will open Save As dialog Box
- B) It will Close the word document
- C) It will update the word document
- D) It will delete the word document

26) ଯଦି Word ଡକ୍ୟୁମେଣ୍ଟରେ F12 ଦବାଇ ଦିଆଯାଏ ତେବେ କଣ ହେବ?

- A) ଏହା Save As ଡାୟଲଗ୍ ବକ୍ସ ଖୋଲିବ
- B) ଏହା Word ଡକ୍ୟୁମେଣ୍ଟକୁ Close କରିବ
- C) ଏହା Word ଡକ୍ୟୁମେଣ୍ଟକୁ Update କରିବ
- D) ଏହା Word ଡକ୍ୟୁମେଣ୍ଟକୁ Delete କରିବ

27) Which of the following is not an INPUT device ?

- A) MICR
- B) WEBCAM
- C) Microphone
- D) Plotter

27) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ଇନପୁଟ୍ ଡିଭାଇସ୍ ନୁହେଁ?

- A) MICR
- B) ୱେବକ୍ୟାମ୍
- C) ମାଇକ୍ରୋଫୋନ୍
- D) ପ୍ଲଟର



28) Which of the following statements is FALSE about System Software?

- A) A System software is a collection of programs designed to operate, control, and extend the processing capabilities of the computer itself.
- B) A System software products comprise of programs written in low-level languages which interact with the hardware at a very basic level.
- C) A System software may consist of a single program, such as a Microsoft's notepad for writing and editing simple text.
- D) A System software serves as the interface between hardware and the end users.

28) ସିଷ୍ଟମ୍ ସଫ୍ଟୱେୟାର ବିଷୟରେ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ଉକ୍ତି ମିଥ୍ୟା ଅଟେ?

- A) ଏକ ସିଷ୍ଟମ୍ ସଫ୍ଟୱେୟାର ହେଉଛି କମ୍ପ୍ୟୁଟରର ପ୍ରକ୍ରିୟାକରଣ କ୍ଷମତାକୁ ନିଜେ ପରିଚାଳନା, ନିୟନ୍ତ୍ରଣ ଏବଂ ବିସ୍ତାର କରିବା ପାଇଁ ଡିଜାଇନ୍ ହୋଇଥିବା ପ୍ରୋଗ୍ରାମଗୁଡ଼ିକର ଏକ ସଂଗ୍ରହ।
- B) ଏକ ସିଷ୍ଟମ୍ ସଫ୍ଟୱେୟାର ଉତ୍ପାଦ ଲୋ –ଲେଭେଲ ଭାଷାରେ ଲିଖିତ ପ୍ରୋଗ୍ରାମ ଗୁଡ଼ିକ ଅନ୍ତର୍ଭୁକ୍ତ ଯାହା ହାର୍ଡୱେୟାର ସହ ଅତି ମୌଳିକ ସ୍ତରରେ ଅନ୍ତଃକ୍ରିୟା(ଇଣ୍ଟରାକ୍ଟ) କରେ।
- C) ଏକ ସିଷ୍ଟମ୍ ସଫ୍ଟୱେୟାର ଗୋଟିଏ ପ୍ରୋଗ୍ରାମ୍ କୁ ନେଇ ଗଠିତ ହୋଇପାରେ, ଯେପରିକି ସରଳ ଟେକ୍ସ୍‌ଏଡିଟର ଏବଂ ସମ୍ପାଦନ କରିବା ପାଇଁ ମାଇକ୍ରୋସଫ୍ଟର ନୋଟପାଡ୍।
- D) ଏକ ସିଷ୍ଟମ୍ ସଫ୍ଟୱେୟାର, ହାର୍ଡୱେୟାର ଏବଂ ଶେଷ ଉପଭୋକ୍ତାଙ୍କ ମଧ୍ୟରେ ଇଣ୍ଟରଫେସ୍ ଭାବରେ କାର୍ଯ୍ୟ କରେ।

29) Norton, McAfee and K7 are examples of

- A) Operating Systems
- B) Photo Editors
- C) Phishing softwares
- D) Anti virus softwares

29) Norton, McAfee ଏବଂ K7 କାହାର ଉଦାହରଣ ଅଟେ?

- A) ଅପରେଟିଂ ସିଷ୍ଟମ୍
- B) ଫଟୋ ଏଡିଟର୍ସ
- C) ଫିସିଂ ସଫ୍ଟୱେୟାର
- D) ଆଣ୍ଟି ଭାଇରସ୍ ସଫ୍ଟୱେୟାର

30) Which among the following is not a Video Conferencing Tool ?

- A) Zoom Meetings
- B) MS Teams
- C) Google Meet
- D) MS Outlook

30) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ଭିଡିଓ କନଫରେନ୍ସିଂ ଟୁଲ୍ ନୁହେଁ?

- A) Zoom Meetings
- B) MS Teams
- C) Google Meet
- D) MS Outlook

31) Which of the following options is not a method of insertion of a new blank slide in presentation?

- A) On the Formatting toolbar, click New Slide
- B) With the insertion point in the Outline or Slides tab, press Enter.
- C) Inserting using the shortcut key Ctrl +M
- D) Inserting using the shortcut key Ctrl +N

31) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ବିକଳ୍ପ ପଦ୍ଧତି ଦ୍ଵାରା ଏକ ନୂତନ ଖାଲି ସ୍ଲାଇଡ୍ ନିବେଶନ କରିହେବ ନାହିଁ?

- A) Formatting toolbar ରେ, New Slide କୁ କ୍ଲିକ୍ କରନ୍ତୁ
- B) Outline କିମ୍ବା Slide ଟ୍ୟାବ୍ ର ନିବେଶନ ବିନ୍ଦୁରେ, Enter ଦବାନ୍ତୁ
- C) ସର୍ଟକଟ୍ Key Ctrl +M ବ୍ୟବହାର କରି ନିବେଶନ କରିବା
- D) ସର୍ଟକଟ୍ Key Ctrl +N ନ୍ ବ୍ୟବହାର କରି ନିବେଶନ କରିବା

32) Which one of the following is not an Optical Storage Device ?

- A) CD
- B) DVD
- C) Floppy Disk
- D) Blue-Ray Disk

32) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ଅପ୍ଟିକାଲ୍ ଷ୍ଟୋରେଜ୍ ଡିଭାଇସ୍ ନୁହେଁ?

- A) CD
- B) DVD
- C) Floppy Disk
- D) Blue-Ray Disk

33) The physical computer equipment that can be touched is known as:

- A) Hardware
- B) Input/output
- C) Software
- D) Storage

33) ଭୌତିକ କମ୍ପ୍ୟୁଟର ଉପକରଣ ଯାହା ସ୍ପର୍ଶ କରାଯାଇପାରିବ ତାହାକୁ କଣ କୁହାଯାଏ:

- A) ହାର୍ଡୱେୟାର
- B) ଇନପୁଟ୍/ଆଉଟପୁଟ୍
- C) ସଫ୍ଟୱେୟାର
- D) ଷ୍ଟୋରେଜ୍

34) Which of the following is an Integrated Library Management Software developed by National Informatics Centre,(NIC) that is useful for automation of in-house activities of libraries and to provide various online member services.

- A) E-GRANTHALAYA
- B) E-LIBRARY
- C) m-LIBRARY
- D) m-Pushtakalaya

34) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ହେଉଛି National Informatics Centre,(NIC) ଦ୍ୱାରା ବିକଶିତ ଏକ ସମନ୍ୱିତ ଲାଇବ୍ରେରୀ ମ୍ୟାନେଜମେଣ୍ଟ ସଫ୍ଟୱେୟାର ଯାହା ଲାଇବ୍ରେରୀ ଗୁଡ଼ିକର ଅନ୍ତର୍ନିହିତ କାର୍ଯ୍ୟକଳାପର ସ୍ୱୟଂଚାଳିତ ଏବଂ ବିଭିନ୍ନ ଅନଲାଇନ୍ ସଦସ୍ୟ ସେବା ପ୍ରଦାନ କରିବା ପାଇଁ ଉପଯୋଗୀ ଅଟେ-

- A) E-GRANTHALAYA
- B) E-LIBRARY
- C) m-LIBRARY
- D) m-Pushtakalaya

35) Where are the emails stored when auto save option is executed?

- A) Drafts
- B) Inbox
- C) Sent Items
- D) Bulk mail

35) ଯେତେବେଳେ ଅଟୋ ସେଭ ବିକଳ୍ପ କାର୍ଯ୍ୟକାରୀ ହୁଏ, ଇମେଲଗୁଡ଼ିକ କେଉଁଠାରେ ସ୍ଵୀକ୍ଷିତ ହୁଏ?

- A) Drafts
- B) Inbox
- C) Sent Items
- D) Bulk mail



Section 4 - Paper I Pedagogy and Evaluation

No. of Questions: 15

36) Carl Roger's approach believes that a teacher must be a

- A) a facilitator
- B) an authoritarian
- C) an evaluator
- D) a manipulator

36) କାର୍ଲ ରୋଜରଙ୍କ ଆଭିମୁଖ୍ୟ ବିଶ୍ୱାସ କରେ ଯେ ଜଣେ ଶିକ୍ଷକ ନିଶ୍ଚିତ ଭାବେ ନିମ୍ନଲିଖିତ ପରି ହେବା ଆବଶ୍ୟକ।

- A) ଜଣେ ସହାୟକ
- B) ଜଣେ କ୍ଷମତାସୀନ
- C) ଜଣେ ମୂଲ୍ୟାୟନକାରୀ
- D) ଜଣେ ହେଉଫେରକାରୀ

37) The word 'cognition' is derived from the Latin word 'cognoscere' which means

- A) to explain
- B) to lecture
- C) to know
- D) to discuss

37) 'କଗନିଶନ' ଶବ୍ଦଟି ଲାଟିନ୍ ଶବ୍ଦ 'କଗ୍ନୋସ୍କେର୍' ରୁ ଉତ୍ପନ୍ନ ହୋଇଛି ଯାହାର ଅର୍ଥ ହେଉଛି-

- A) ସ୍ପଷ୍ଟ କରିବା
- B) ବକ୍ତୃତା ଦେବା
- C) ଜାଣିବା
- D) ଆଲୋଚନା କରିବା

38) Which of the following is an advantage of objective type test?

- A) Time saving
- B) Easy to prepare
- C) More guessing
- D) Less printing cost

38) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ବସ୍ତୁନିଷ୍ଠ (ଅବଜେକ୍ଟିଭ୍) ପ୍ରକାର ପରୀକ୍ଷାର ଏକ ସୁବିଧା ଅଟେ?

- A) ସମୟ ସଞ୍ଚୟ
- B) ପ୍ରସ୍ତୁତ କରିବା ସହଜ
- C) ଅଧିକ ଅନୁମାନ
- D) କମ୍ ମୁଦ୍ରଣ ମୂଲ୍ୟ

39) Full form of MLL is

- A) Minimum levels of learning
- B) Maximum levels of learning
- C) Maximum life of learning
- D) Minimum age life of learning

39) MLL ର ପୂର୍ଣ୍ଣରୂପ ହେଉଛି-

- A) ମିନିମମ୍ ଲେଭେଲ୍ ଅଫ୍ ଲର୍ନିଙ୍ଗ୍
- B) ମାକ୍ସିମମ୍ ଲେଭେଲ୍ ଅଫ୍ ଲର୍ନିଙ୍ଗ୍
- C) ମାକ୍ସିମମ୍ ଲାଇଫ୍ ଅଫ୍ ଲର୍ନିଙ୍ଗ୍
- D) ମିନିମମ୍ ଏଜ୍ ଲାଇଫ୍ ଅଫ୍ ଲର୍ନିଙ୍ଗ୍

40) Who gave the definition, "To learn is to modify behaviour and experience"?

- A) Gates
- B) Crow and Crow
- C) Skinner
- D) Munn

40) "ଶିକ୍ଷା ହେଉଛି ଆଚରଣ ଏବଂ ଅଭିଜ୍ଞତାକୁ ପରିବର୍ତ୍ତନ କରିବା।" ସଂଜ୍ଞା କିଏ ଦେଇଥିଲେ?

- A) ଗେଟ୍ସ
- B) କ୍ରୋ ଏବଂ କ୍ରୋ
- C) ସ୍କିନର୍
- D) ମୁନ୍

41) Assessment of entry behaviour is done just

- A) during teaching
- B) before teaching starts
- C) when teaching starts
- D) after teaching

41) ପ୍ରବେଶ ଆଚରଣର ନିର୍ଦ୍ଧାରଣ କେତେବେଳେ କରାଯାଇଥାଏ?

- A) ଶିକ୍ଷାଦାନ ସମୟରେ
- B) ଶିକ୍ଷାଦାନ ଆରମ୍ଭ ହେବା ପୂର୍ବରୁ
- C) ଯେତେବେଳେ ଶିକ୍ଷାଦାନ ଆରମ୍ଭ ହୁଏ
- D) ଶିକ୍ଷାଦାନ ପରେ

42) Maturation is

- A) an artificial process
- B) an induced process
- C) a natural process
- D) a learnt process

42) ପରିପକ୍ୱତା ହେଉଛି-

- A) ଏକ କୃତ୍ରିମ ପ୍ରକ୍ରିୟା
- B) ଏକ ପ୍ରେରିତ ପ୍ରକ୍ରିୟା
- C) ଏକ ପ୍ରାକୃତିକ ପ୍ରକ୍ରିୟା
- D) ଏକ ସିଖାଯାଇଥିବା ପ୍ରକ୍ରିୟା

43) Humanistic approach in the learning process believes

- A) both teacher centered and child centered approaches
- B) teacher centered approach
- C) child- centered approach
- D) neither in teacher centered nor child centered approach

43) କାହା ଉପରେ, ଶିକ୍ଷଣ ପ୍ରକ୍ରିୟାରେ ମାନବବାଦୀ ଆଭିମୁଖ୍ୟ ବିଶ୍ୱାସ କରେ?

- A) ଉଭୟ ଶିକ୍ଷକ କୈନ୍ଦ୍ରିକ ଏବଂ ଶିଶୁ କୈନ୍ଦ୍ରିକ ଆଭିମୁଖ୍ୟ
- B) ଶିକ୍ଷକ କୈନ୍ଦ୍ରିକ ଆଭିମୁଖ୍ୟ
- C) ଶିଶୁ କୈନ୍ଦ୍ରିକ ଆଭିମୁଖ୍ୟ
- D) ଶିକ୍ଷକ କୈନ୍ଦ୍ରିକ କିମ୍ବା ଶିଶୁ କୈନ୍ଦ୍ରିକ କୌଣସିଟି ଭି ଆଭିମୁଖ୍ୟରେ ନୁହେଁ

44) Problem solving is a

- A) learner centered approach
- B) teacher centric approach
- C) both learner and teacher centered approach
- D) neither teacher centric nor learner centered

44) ସମସ୍ୟାର ସମାଧାନ ହେଉଛି ଏକ-

- A) ଶିକ୍ଷାର୍ଥୀ କୈନ୍ଦ୍ରିକ ଆଭିମୁଖ୍ୟ
- B) ଶିକ୍ଷକ କୈନ୍ଦ୍ରିକ ଆଭିମୁଖ୍ୟ
- C) ଉଭୟ ଶିକ୍ଷାର୍ଥୀ ଏବଂ ଶିକ୍ଷକ କୈନ୍ଦ୍ରିକ ଆଭିମୁଖ୍ୟ
- D) ଶିକ୍ଷକ କୈନ୍ଦ୍ରିକ କିମ୍ବା ଶିକ୍ଷାର୍ଥୀ କୈନ୍ଦ୍ରିକ କୌଣସିଟି ମଧ୍ୟ ନୁହେଁ

45) All of the following are steps in a Project Method EXCEPT:

- A) Creating a situation
- B) Selection of the problem
- C) Prompting
- D) Planning

45) ନିମ୍ନୋକ୍ତ ମଧ୍ୟରୁ କେଉଁ ବିକଳ୍ପଟି ବ୍ୟତୀତ ଅନ୍ୟ ସମସ୍ତ ଏକ ପ୍ରକଳ୍ପ (ପ୍ରୋଜେକ୍ଟ) ପଦ୍ଧତିର ପର୍ଯ୍ୟାୟ ଅଟନ୍ତି?

- A) ଏକ ପରିସ୍ଥିତି ସୃଷ୍ଟି କରିବା
- B) ସମସ୍ୟାର ଚୟନ କରିବା
- C) ଅନୁବୋଧକ
- D) ଯୋଜନା

46) In CCE a child is Evalutaed for

- A) Both Scholastic and Co-scholastic aspects
- B) Only Scholastic and not Co-scholastic aspect
- C) Only Co-Scholastic aspect
- D) Nither Scholastic nor Co-scholastic aspects

46) CCE ରେ ଏକ ଶିଶୁକୁ ନିମ୍ନଲିଖିତ ପାଇଁ ମୂଲ୍ୟାୟନ କରାଯାଏ

- A) ଉଭୟ ଶିକ୍ଷା ସମ୍ବନ୍ଧୀୟ ଏବଂ ସହ-ଶିକ୍ଷା ସମ୍ବନ୍ଧୀୟ ଦୃଷ୍ଟିକୋଣରୁ
- B) କେବଳ ଶିକ୍ଷା ସମ୍ବନ୍ଧୀୟ ଏବଂ ସହ-ଶିକ୍ଷା ସମ୍ବନ୍ଧୀୟ ଦୃଷ୍ଟିକୋଣରୁ ନୁହେଁ
- C) କେବଳ ସହ-ଶିକ୍ଷା ସମ୍ବନ୍ଧୀୟ ଦୃଷ୍ଟିକୋଣରୁ
- D) ଉଭୟ ଶିକ୍ଷା ସମ୍ବନ୍ଧୀୟ ଏବଂ ସହ-ଶିକ୍ଷା ସମ୍ବନ୍ଧୀୟ ଦୃଷ୍ଟିକୋଣରୁ ନୁହେଁ

47) In 5 E Approach of lesson planning, at which point do the learners begin to put their experiences into a communicable form?

- A) Evaluate
- B) Explain
- C) Elaborate
- D) Explore

47) ଶିକ୍ଷା ଯୋଜନାର 5E ଆଭିମୁଖ୍ୟରେ, କେଉଁ ସମୟରେ ଶିକ୍ଷାର୍ଥୀମାନେ ସେମାନଙ୍କର ଅନୁଭୂତିକୁ ଏକ ଯୋଗାଯୋଗ ରୂପରେ ରଖିବା ଆରମ୍ଭ କରନ୍ତି?

- A) ମୂଲ୍ୟାୟନ
- B) ବ୍ୟାଖ୍ୟା
- C) ପ୍ରାଞ୍ଜଳଭାବେ ବୁଝାଇବା
- D) ଅନୁସନ୍ଧାନ

48) Which of the following statements about Piaget's theory of cognitive development is NOT true?

- A) The sequence of the stages is not the same across cultures
- B) The child has to develop or construct a mental model of the world.
- C) Each stage involves a different type of intelligence.
- D) It suggests that intelligence changes as children grow.

48) ପିଆଜେକ ଜ୍ଞାନଗତ ବିକାଶ ସିଦ୍ଧାନ୍ତ ବିଷୟରେ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ବିବୃତ୍ତି ସତ୍ୟ ନୁହେଁ?

- A) ପର୍ଯ୍ୟାୟର କ୍ରମ ସଂସ୍କୃତିରେ ସମାନ ନୁହେଁ
- B) ପିଲାକୁ ଦୁନିଆର ଏକ ମାନସିକ ମଡେଲ ବିକଶିତ କିମ୍ବା ନିର୍ମାଣ କରିବାକୁ ପଡ଼ିବ
- C) ପ୍ରତ୍ୟେକ ପର୍ଯ୍ୟାୟରେ ଏକ ଭିନ୍ନ ପ୍ରକାରର ବୁଦ୍ଧି ଅନ୍ତର୍ଭୁକ୍ତ
- D) ଏହା ସୂଚିତ କରେ ଯେ ପିଲାମାନଙ୍କ ବଢ଼ିବା ସହିତ ବୁଦ୍ଧିର ପରିବର୍ତ୍ତନ ହୁଏ

49) Which of the following is a characteristic feature of formative evaluation?

- A) Evaluation happens at the end of program
- B) Evaluation is used prior to program design
- C) Evaluation is used indicate only the learning outcome of the program
- D) Evaluation happens simultaneously with teaching.

49) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଗଠନମୂଳକ ମୂଲ୍ୟାୟନର ଏକ ଚରିତ୍ରଗତ ବୈଶିଷ୍ଟ୍ୟ ଅଟେ?

- A) ପ୍ରୋଗ୍ରାମ ଶେଷରେ ମୂଲ୍ୟାୟନ ହୁଏ।
- B) ପ୍ରୋଗ୍ରାମ ପରିକଳ୍ପନା ପୂର୍ବରୁ ମୂଲ୍ୟାୟନ ବ୍ୟବହୃତ ହୁଏ।
- C) ବ୍ୟବହୃତ ମୂଲ୍ୟାୟନ କେବଳ ପ୍ରୋଗ୍ରାମର ଶିକ୍ଷଣ ଫଳାଫଳକୁ ସୂଚିତ କରେ।
- D) ଶିକ୍ଷାଦାନ ସହିତ ଏକକାଳୀନ ରୂପେ ମୂଲ୍ୟାୟନ ହୁଏ।

50) The TLMs should always be designed according

- A) to the level of teachers
- B) to the level of management
- C) to the level of students
- D) to the level of school

50) କାହା ଅନୁଯାୟୀ TLMs ସର୍ବଦା ରୂପରେଖ ହେବା ଉଚିତ ?

- A) ଶିକ୍ଷକମାନଙ୍କ ସ୍ତର
- B) ପରିଚାଳନା ସ୍ତର
- C) ଛାତ୍ରମାନଙ୍କ ସ୍ତର
- D) ବିଦ୍ୟାଳୟ ସ୍ତର

Section 5 - Paper II Physics

No. of Questions: 30

51) The tangent galvanometer, when connected in series with a standard resistance can be used as

- A) An ammeter
- B) A voltmeter
- C) A wattmeter
- D) Both ammeter and voltmeter

52) The terminal potential difference of a cell is greater than its e.m.f. when it is

- A) Being discharged
- B) In open circuit
- C) Being charged
- D) Being either charged or discharged

53) The phase difference between the flux linkage and the induced e.m.f. in a rotating coil in a uniform magnetic field

- A) π
- B) $\pi/2$
- C) $\pi/4$
- D) $\pi/6$

54) If two charges each of 1 C are at a distance 1 km apart, then the force between them is

- A) $9 \times 10^3 \text{ N}$
- B) $9 \times 10^{-3} \text{ N}$
- C) $1.1 \times 10^{-4} \text{ N}$
- D) $1 \times 10^4 \text{ N}$

55) There is no atmosphere on the moon because

- A) It is closer to the earth
- B) Its revolves round the earth
- C) Its gets light from the sun
- D) The escape velocity of gas molecules is lesser than their root mean square velocity at moon

56) Albert Einstein showed that the mass and energy are related by the relation:

- A) $E = mc$
- B) $E = mc^2$
- C) $E = 2mc$
- D) $E = mc^2/2$

57) Read the following statements and choose the CORRECT answer.

(i) In all collisions the total linear momentum is conserved; the initial momentum of the system is equal to the final momentum of the system.

(ii) In elastic collisions, both momentum and kinetic energy are conserved. The total system kinetic energy before the collision equals the total system kinetic energy after the collision.

- A) (i) - TRUE and (ii) - FALSE
- B) (i) - TRUE and (ii) - TRUE
- C) (i) - FALSE and (ii) - TRUE
- D) (i) - FALSE and (ii) - FALSE

58) A 100 watt bulb which is used for 10 hours uses an energy equivalent to

- A) 1 kWh
- B) 10 Wh
- C) 100 Wh
- D) 1000 Wh

59) When a monochromatic light source is kept in front of the biprism then the two coherent sources are obtained by

- A) refraction
- B) polarisation
- C) interference
- D) diffraction

60) In a Young's double slit experiment when a blue light is replaced by red light then the fringe width

- A) increases
- B) decreases
- C) remains constant
- D) becomes zero

61) The phenomenon of diffraction in which either the source or screen or both are at a finite distance from the diffracting device is

- A) Fraunhofer diffraction
- B) Fresnel diffraction
- C) Youngs' double slit
- D) Plane transmission

62) What will be the equation of state for 5g of oxygen at a pressure P and temperature T, when occupying a volume V?

- A) $PV = (5/32)RT$
- B) $PV = 5 RT$
- C) $PV = (5/2)RT$
- D) $PV = (5/16)RT$

63) H_2O is a non-linear tri-atomic molecule. The vibrational degrees of freedom of H_2O is

- A) 3
- B) 6
- C) 4
- D) 2

64) With reference to electromagnetic waves, the propagation constant or wave number 'k' is equal to

- A) $2\pi\lambda$
- B) $2\pi/\lambda$
- C) λ
- D) $\lambda/2\pi$

65) The phenomenon in which sound waves are reflected multiple times causing a single sound to be heard more than once and if the time interval between the successive reflections is small (less than 0.1 seconds) then it is termed as:

- A) Echo
- B) Resonance
- C) Reverberation
- D) Diffusion

66) A galvanometer of 100Ω resistance gives full scale deflection when 10 mA of current is passed. To convert it into 10 A range ammeter, the resistance of the shunt required will be

- A) 1Ω
- B) 0.001Ω
- C) 0.01Ω
- D) 0.1Ω

67) A battery of 24 cells, each of emf 1.5 V and internal resistance 2Ω is to be connected in order to send the maximum current through a 12Ω resistor. The correct arrangement of cells will be

- A) 2 rows of 12 cells connected in parallel
- B) 3 rows of 8 cells connected in parallel
- C) 4 rows of 6 cells connected in series
- D) 7 rows of 6 cells connected in series

68) A copper disc of radius 0.1 m rotates about its centre with 10 revolutions per second in a uniform magnetic field of 0.1 Tesla with its plane perpendicular to the field. The emf induced across the radius of the disc is

- A) $\pi/10$ volt
- B) $2\pi/10$ volt
- C) 10π milli volt
- D) 20π milli volt

69) The capacitor of capacitance $4 \mu\text{F}$ and $6 \mu\text{F}$ are connected in series. A potential difference of 500 V applied to the outer plates of the two capacitor system. Then the charge on each capacitor is numerically

- A) 6000 C
- B) 1200 C
- C) $6000 \mu\text{C}$
- D) $1200 \mu\text{C}$

70) The magnetic field intensity at a distance of 25 cm from a pole of strength 50 Am in air is

- A) 73.6 A/m
- B) 63.6 A/m
- C) 53.6 A/m
- D) 43.6 A/m

71) Two identical satellites A and B are circulating round the earth at the height of R and $2R$ respectively, (where R is radius of the earth). The ratio of kinetic energy of A to that of B is

- A) $1/2$
- B) $2/3$
- C) 2
- D) $3/2$

72) The ratio of the radius of the earth to that of the moon is 10. The ratio of acceleration due to gravity on the earth to that on the moon is 6. The ratio of the escape velocity from the earth's surface to that from the moon is (nearly)

- A) 10
- B) 6
- C) 8
- D) 5

73) The work done against the gravitational force when a body of mass 50 kg is moved parallel to the ground through a distance of 5 m is

- A) 0 J
- B) 250 J
- C) 1250 J
- D) 2450 J

74) The kinetic energy of a body of mass 25 kg moving with a velocity of 10 ms^{-1} is

- A) 250 J
- B) 125 J
- C) 1250 J
- D) 2500 J

75) At any particular wavelength, the ratio of angular dispersion to the mean deviation produced by the prism is known as:

- A) Angular deviation
- B) Dispersive power
- C) Minimum deviation
- D) Critical angle

76) In order to get a real image which is of the same size as that of the object, the object should be placed at which of the following positions from the convex lens?

- A) At principal focus (f)
 - B) Between the optical centre and principal focus
 - C) At twice the focal length ($2f$)
 - D) At infinity
-

77) A gas mixture consists of 2 moles of O_2 and 4 moles of Ar at temperature T . Neglecting all vibrational modes, the total internal energy of the system is (where, R is gas constant)

- A) $15RT$
 - B) $9RT$
 - C) $11RT$
 - D) $4RT$
-

78) The mechanical waves such as sound waves need a material medium to travel and are governed by which of the following laws?

- A) Planck's law
 - B) Hertz's law
 - C) Faraday's law
 - D) Newton's law
-

79) The mixture of different frequencies that are discrete (separable) and rational with a discernible dominant frequency and which are able to express ideas and emotions in significant form can be termed as:

- A) Music
 - B) Sound
 - C) Noise
 - D) Loudness
-

80) Standing waves are formed when guitar wire is stretched and if we keep on increasing the stretching force its frequency will

- A) decrease
- B) increase
- C) remains unchanged
- D) first decrease and then becomes zero

Section 6 - Paper II Chemistry

No. of Questions: 30

81) What should be the molecular mass of potassium permanganate in neutral medium?

- A) 5 x equivalent mass
 - B) 4 x equivalent mass
 - C) 3 x equivalent mass
 - D) 2 x equivalent mass
-

82) What should be the equivalent mass of potassium permanganate in basic medium?

- A) molecular mass / 1
 - B) molecular mass / 3
 - C) molecular mass / 5
 - D) molecular mass / 2
-

83) Which of the following have both covalent bond and ionic bond?

- A) NaCl
 - B) NH₄Br
 - C) PCl₅
 - D) HgCl₂
-

84) What is the geometrical shape of SO₂ molecule?

- A) Bent
 - B) Trigonal
 - C) See saw
 - D) T-shape
-

85) What is the ionic product of water (K_w)?

- A) K_w = 7
- B) K_w = 14
- C) K_w = 10⁻¹⁴
- D) K_w = 10⁻⁷

86) What is the correct expression for pH?

- A) $\text{pH} = -\log^{10} [\text{H}^+]$
- B) $\text{pH} = \log^{10} [\text{H}^+]$
- C) $\text{pH} = -\log [\text{H}^+]$
- D) $\text{pH} = \log [\text{H}^+]$

87) Which of the following molecule has oxidation number of phosphorus as +3?

- A) H_3PO_4
- B) H_3PO_2
- C) H_3PO_3
- D) $\text{H}_4\text{P}_2\text{O}_7$

88) Which of the following indicates Electronegativity?

- A) The amount of energy released when an electron is added to the gaseous atom to form a negative ion
- B) The ability of an atom to attract the shared pair of electrons towards itself in the covalent molecule of a compound
- C) The number of electrons in the outermost orbitals
- D) Eight minus the number of electrons

89) What is the purest form of iron?

- A) Pig iron
- B) Wrought iron
- C) Scrap iron
- D) Cast iron

90) Saturated hydrocarbons donot undergo _____ reaction?

- A) iodoform
- B) halogenation
- C) chloroform
- D) polymerization

91) Paraffins are known as

- A) un-saturated hydrocarbons
- B) alkanes
- C) alkynes
- D) alkenes

92) Tertiary alkyl halides normally are reactive in which reactions?

- A) SN1
- B) SN2
- C) E1
- D) E2

93) Which of the following has SI unit as N/m? [N=Newton, m-metre]

- A) Vapour pressure
- B) Surface tension
- C) Viscosity
- D) Boiling point

94) Which of the following statement indicates 'Aufbau principle'?

- A) Electrons enter into different atomic orbitals in the increasing order of their energies
- B) Electrons enter into different atomic orbitals in the decreasing order of their energies
- C) The maximum number of electrons that an orbital that can accommodate is two
- D) Electron pairing in p, d and f orbitals cannot occur until all orbitals of a given sub-shell contains one electron each

95) What should be the number of orbitals for 'n' (Principal quantum number)= 4?

- A) 1
- B) 4
- C) 9
- D) 16

96) How many atoms of propane occupy the volume of 16.8 Litres at Standard Temperature and Pressure?

- A) 1.5055×10^{23}
- B) 3.011×10^{23}
- C) 4.5165×10^{23}
- D) 6.022×10^{23}

97) Which of the following molecule has intermolecular hydrogen bond?

- A) HF
- B) Ortho-nitrophenol
- C) Hydrogen
- D) Chlorine

98) What is the solubility product (Ksp) for the reaction, $\text{Ag}_2\text{CrO}_4 \leftrightarrow 2\text{Ag}^+ + \text{CrO}_4^{2-}$?

- A) $K_{sp} = [\text{Ag}^+][\text{CrO}_4^{2-}]$
- B) $K_{sp} = [\text{Ag}^+]^2[\text{CrO}_4^{2-}]$
- C) $K_{sp} = [\text{Ag}^{+0.5}][\text{CrO}_4^{2-}]$
- D) $K_{sp} = [\text{Ag}^+][\text{CrO}_4^{2-}]^{0.5}$

99) How much quantity of NaOH is needed to prepare 100 ml of 1N NaOH solution?

- A) 40 g
- B) 4 g
- C) 10 g
- D) 20 g

100) Find the strength of KOH when 28 g of KOH is dissolved in 1000 ml water?

- A) 0.1 N
- B) 0.2 N
- C) 0.5 N
- D) 1.0 N

101) Identify the group number and valence electrons for an element with atomic number 9.

- A) Group 16 and 6 valency electrons
- B) Group 16 and 7 valency electrons
- C) Group 17 and 6 valency electrons
- D) Group 17 and 7 valency electrons

102) Which of the following statement is correct regarding electronegativity?

- A) $F > O > N > P$
- B) $F > N > O > P$
- C) $F > O > P > N$
- D) $F > N > P > O$

103) What is the difference between flux and slag?

- A) Slag is the material added to remove impurities & Flux is the waste material that is removed.
 - B) Flux is the material added to remove impurities & Slag is the waste material that is removed.
 - C) Flux is the material used for reduction & Slag is the waste material that is removed.
 - D) Slag is the material used for reduction & Flux is the waste material that is removed.
-

104) Which metal can be extracted by carbon reduction method?

- A) Calcium
 - B) Magnesium
 - C) Iron
 - D) Aluminium
-

105) Acetylenes undergo tetramerization in presence of _____ metal?

- A) Na
 - B) Ni
 - C) Mg
 - D) Al
-

106) Acetylene in the presence of HgSO_4 and dilute sulphuric acid undergo hydration reaction, it produce?

- A) acetaldehyde
 - B) ethanol
 - C) acetone
 - D) formaldehyde
-

107) Molecular formula of benzene is

- A) C_6H_{12}
 - B) C_6H_8
 - C) C_6H_{10}
 - D) C_6H_6
-

108) 77 cm^3 of a gas at 1 atm at 35°C was compressed to 37 cm^3 at 23°C . Calculate the final pressure of the gas.

- A) 0.5 atm
- B) 1.5 atm
- C) 2.0 atm
- D) 2.5 atm

109) Calculate the total number of moles of neon dioxygen mixture containing 64 g dioxygen and 30 g neon. [Molecular mass of dioxygen = 32g/mol and Neon = 20 g/mol]

- A) 2.5 moles
- B) 3.0 moles
- C) 3.5 moles
- D) 4.0 moles

110) A ball with mass 50 g and speed 25 m/s is measured with an accuracy of 2%. Calculate the uncertainty in position.

- A) $5h/2\pi$ m
- B) $10h/\pi$ m
- C) $5h/4\pi$ m
- D) h/π m

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Section 7 - Paper II Mathematics

No. of Questions: 40

111) The equation of the line through the point (3,2, -8) and perpendicular to the plane $3x - y - 2z = 2$ is

A) $\frac{x-3}{3} = \frac{y-2}{-1} = \frac{z+8}{-2}$

B) $\frac{x-1}{1} = \frac{y+1}{-2} = \frac{z-2}{2}$

C) $\frac{x-1}{1} = \frac{y+1}{1} = \frac{z-1}{1}$

D) $\frac{x-3}{1} = \frac{y-3}{8} = \frac{z-7}{-1}$

112) Evaluate $\frac{d}{dx} \{(\sec x - 1)(\sec x + 1)\}$

A) $2 \tan x \sec x$

B) $2 \tan^2 x \sec x$

C) $2 \tan x \sec^2 x$

D) $2 \tan x$

113) Focus of the parabola $y^2 = -4ax$ ($a > 0$) is

A) $(a, 0)$

B) $(-a, 0)$

C) $(0, a)$

D) $(0, -a)$

114) Area (in sq.units) of the triangle with vertices $(0, b)$, $(a, 0)$, and $(0, 0)$ is

A) ab

B) $0.5ab$

C) $a-b$

D) $a+b$



115) What is the radius (in units) of a circle whose area and circumference are numerically equal?

- A) 2
- B) 3
- C) 4
- D) 1

116) Circumference of a circle whose area is 301.84 sq.units is (Assume $\pi = 22/7$)

- A) 4.6 units
- B) 9.8 units
- C) 59.4 units
- D) 61.6 units

117) If p is a negative real number, then

- A) $|p| = p$
- B) $|p| = -p$
- C) $|p| = 1/p$
- D) $|p| = -1/p$

118) If $(x/y) = (7/5)$ then the value of $(x-y)/(x+y)$ is

- A) $1/6$
- B) $-1/6$
- C) $1/7$
- D) $1/8$

119) What is the probability of getting an odd number on the top when an unbiased cubic die is thrown?

- A) $1/2$
- B) $2/3$
- C) $3/4$
- D) 1

120) Set of all outcomes of an experiment is called

- A) Trial
- B) Random experiment
- C) Sample space
- D) Probability

121) In a quadratic equation of the form $ax^2+bx+c=0$ if the sum of the coefficients $(a+b+c)$ is zero, then which of the following can definitely be a root of it?

- A) 0
- B) -1
- C) 1
- D) 4

122) How many solutions are there for the equation given below?

$$3^x+4^x=5^x$$

- A) 2
- B) 1
- C) 3
- D) No solution

123) What is the arithmetic mean of the roots of the equation $x^2 - 12x + 3 = 0$?

- A) 12
- B) 6
- C) -12
- D) -5

124) If $f(x) = x^3 - (1/x^3)$, then the value of $f(x)+f(1/x)$ is

- A) $2x^3$
- B) $2/x^3$
- C) 1
- D) 0

$$1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n}$$

125) The sequence

- A) converges
- B) uniformly converges
- C) oscillates
- D) diverges

126) The necessary and sufficient condition for the convergence of a sequence is

- A) it should be bounded
- B) it should have a unique limit point
- C) it should be bounded or has unique limit point
- D) it should be bounded and has unique limit point

127) If $U = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$ is the universal set and $A = \{0, 1, 2, 3, 4, 8\}$, then A' is equal to

- A) $\{5, 6, 7, 9\}$
- B) $\{1, 6, 7, 9\}$
- C) $\{2, 5, 7, 8\}$
- D) $\{2, 3, 4, 5, 6, 7, 8, 9\}$

128) The geometric mean of 40, 50 and x is 20. The value of x is

- A) 2
- B) 4
- C) 5
- D) 6

129) If $5 \sin A = 3$, then the value of $(\sec A + \tan A) / (\sec A - \tan A)$ is

- A) 4
- B) $1/4$
- C) 2
- D) $1/2$

130) $\tan 3A - \tan 2A - \tan A =$

- A) $\tan A \cdot \tan 2A \cdot \tan 4A$
- B) $\tan 3A \cdot \tan 2A \cdot \tan A$
- C) $-\tan A \cdot \tan 2A \cdot \tan 3A$
- D) $\tan A + \tan 2A + \tan 3A$

131) Equation of the sphere which passes through origin, and which has its centre at $(1/2, 1/2, 0)$ is

- A) $x^2 + y^2 + z^2 = 0$
- B) $x^2 + y^2 + z^2 = 1$
- C) $x^2 + y^2 + z^2 - x - y = 0$
- D) $2x^2 + 2y^2 + 2z^2 = 5$

132) If $y = \frac{\sin(x+9)}{\cos x}$, then $\frac{dy}{dx}$ at $x = 0$ is

- A) 0
- B) 1
- C) Cos9
- D) Sin9

133) $Lt_{x \rightarrow 0^+} [x] =$

- A) 0
- B) 1
- C) -1
- D) 2

134) The triangle formed by the non collinear points (-5,6), (-4,-2) and (7,5) is

- A) equilateral
- B) isosceles
- C) scalene
- D) right angled

135) What is the length of the median drawn through the vertex (7,-3) in the triangle having the vertices (7,-3), (5,3) and (3,-1)?

- A) 4 units
- B) 5 units
- C) 2 units
- D) 6 units

136) A cone of radius 5 cm is filled with water. If that water is poured into a cylinder of radius 10 cm, then the height of water increases by 2 cm. What is the height of the cone?

- A) 22 cm
- B) 12 cm
- C) 24 cm
- D) 14 cm

137) What is the area (in sq. m.) of four walls of the room which is 6.5 m long, 4 m wide and 4.5 m high?

- A) 94
- B) 94.5
- C) 95.4
- D) 95.5

138) How many factors of 1080 are perfect squares?

- A) 4
- B) 5
- C) 6
- D) 8

139) The unit digit of $(127)^{170}$ is

- A) 3
- B) 9
- C) 7
- D) 5

140) A box contains 7 white and 5 black balls, and another box contains 10 white and 6 black balls. One ball is drawn at random from each box. What is the probability that both the balls are white?

- A) $35/96$
- B) $27/32$
- C) $25/78$
- D) $5/41$

141) Two cards are drawn at random from a pack of 52 cards. What is the probability that one is spade and other is a heart?

- A) $1/17$
- B) $1/221$
- C) $13/102$
- D) $4/17$

142) The number of irrational zeros of $3x-1=5$ is

- A) 1
- B) 2
- C) 0
- D) 3

143) What is the value of x in the given equation?

$$9^{x+2} - 6 \times 3^{x+1} + 1 = 0$$

- A) 1
- B) 2
- C) -1
- D) -2

144) If $A = \{3, 5, 7, 9, 11\}$ and there are 6720 injective functions $f: A \rightarrow B$, what is $|B|$?

- A) 5
- B) 6
- C) 7
- D) 8

145) Consider the statements

P: Cauchy sequence is convergent
Q: Cauchy sequence is bounded.

Which of the following is correct?

- A) P and Q both are true
- B) P is false and Q is true
- C) Q is false and P is true
- D) P and Q both are false

$$\frac{1}{1.2} - \frac{1}{2.3} + \frac{1}{3.4} - \dots$$

146) The sum of the series is

- A) $\log_e 2$
- B) $\log_e (2/e)$
- C) $\log_e (4/e)$
- D) $\log_e 2 - 1$

147) If $A = \{1, 2, 3, 4, 8\}$ $B = \{1, 2, 8, 10\}$ then $A \Delta B$ is

- A) $\{2, 4\}$
- B) $\{3, 4, 10\}$
- C) $\{1, 2, 3, 4, 8\}$
- D) $\{1, 2, 8, 10\}$

148) If the mean and median of a set of numbers are 7 and 8 respectively, then the mode will be

- A) 10
 - B) 9
 - C) 11
 - D) 8
-

149) When A is eliminated from the equations, $\sin A + \cos A = x$ and $\sin A - \cos A = y$, the resultant equation represents

- A) Ellipse
 - B) Parabola
 - C) Circle
 - D) Hyperbola
-

150) Simplify: $\sin(A+B) \cdot \sin(A-B)$

- A) $\sin A - \sin B$
- B) $\cos A - \cos B$
- C) $\sin^2 A - \sin^2 B$
- D) $\cos^2 A - \cos^2 B$



Question Paper No:

76341_16

Answer Key

1	A	31	D	61	B	91	B	121	C
2	C	32	C	62	A	92	A	122	B
3	C	33	A	63	A	93	B	123	B
4	A	34	A	64	B	94	A	124	D
5	D	35	A	65	C	95	D	125	D
6	A	36	A	66	D	96	C	126	D
7	D	37	C	67	A	97	A	127	A
8	B	38	A	68	C	98	B	128	B
9	B	39	A	69	D	99	B	129	A
10	C	40	D	70	B	100	C	130	B
11	D	41	B	71	D	101	D	131	C
12	C	42	C	72	C	102	A	132	C
13	D	43	C	73	A	103	B	133	A
14	A	44	A	74	C	104	C	134	C
15	B	45	C	75	B	105	B	135	B
16	B	46	A	76	C	106	A	136	C
17	B	47	B	77	C	107	D	137	B
18	D	48	A	78	D	108	C	138	A
19	C	49	D	79	A	109	C	139	B
20	A	50	C	80	B	110	B	140	A
21	B	51	B	81	C	111	A	141	C
22	C	52	C	82	A	112	C	142	C
23	B	53	B	83	B	113	B	143	D
24	A	54	A	84	A	114	B	144	D
25	B	55	D	85	C	115	A	145	A
26	A	56	B	86	A	116	D	146	C
27	D	57	B	87	C	117	A	147	B
28	C	58	A	88	B	118	A	148	A
29	D	59	A	89	B	119	A	149	C
30	D	60	A	90	D	120	C	150	C

