मैजामबिटावु माल्मा सेषाक्री

ROYAL GOVERNMENT OF BHUTAN ROYAL CIVIL SERVICE COMMISSION

BHUTAN CIVIL SERVICE EXAMINATION 2013 PRELIMINARY EXAMINATION (AUGUST 11, 2013)

QUESTION PAPER SERIES: B

QUESTION PAPER SERIES: B

REGISTRATION NUMBER: BCSE-2013-

Date : August 11, 2013

Total Marks : 100

Total Questions : 100

Examination Time : 150 minutes (2.5 Hours)

Reading Time : 15 Minutes

INSTRUCTIONS:

1. Write your Registration Number clearly in the space provided above.

- 2. The first 15 minutes are to check the number of pages, printing errors, clarify doubts and to read the instructions in Question Paper as well as in Answer Sheet. You are **NOT PERMITTED TO WRITE** during this time.
- 3. The Question Paper consists of **36 pages** excluding this page. It is divided into Four Sections namely **Section A, B, C & D** as follows:

Section A: Dzongkha Language

Section B: English Language

Section C: Problem Solving

Section D: Data Interpretation

And each Section has 25 Multiple Choice Questions.

- 4. This paper consists of 100 Multiple Choice Questions each carrying 1 Mark. All Questions are compulsory.
- 5. All answers should be marked on the Optical Mark Reader (OMR) Answer Sheet. Any answer marked on the Question Paper will not be evaluated.
- 6. Use PENCIL to mark your Answers. Do NOT use Pen.
- 7. It is not permitted to tear off any sheet(s) of the Question Paper including the blank sheets at the back of the Question Paper for rough work.
- 8. Use of any other paper including paper for rough work is not permitted.
- 9. You are required to hand over the question paper along with OMR Answer Sheet to the Invigilator before leaving the examination hall.

SECTION A: DZONGKHA LANGUAGE

र्देवा वी प्येवा क्रुवा शरदी भ्रवा लेव वरायश है ना (ग) वी प्यव रहें नर्गि द क्रुव र प्रविध हे में श्री

धेना क्रुगशाय दे गुरुगश्राय पर्हेर सेंद्र दिने से है सद्मार

ब चर्मण.पर्ज़ि.चपु.श्रीचर्मा. मृंचा.श्रुप्तश्चिष्य.व

 \hat{g} . श्री त्या क्षेत्र प्राप्त क्षेत्र क्षेत्र प्राप्त क्षेत्र क्

કો.સ્ટ્રેન. ક્યું. શ્રી.નશ્રુંશ.દે.ભૂરેન.ક્યું. શ્રેન.દ્ર્યા. વરાજા. કો.સ્ટ્રેન.સ્યા. સુન.સ્યા. ક્યું. સે.નશ્રું સ

क्.कीट.जटवा.की. पार्ट्रट्याय.पर्द्या.चिया.कीट. त्या.कूट. क्रीय.वा.चु.पश्चीट.जय. क्रा.चा.कीट.जय.वा.कीट.ज

इ.च. यो व्यवाक्षियंत्रःकु. म्र्ट्र्यःजवःबुद्धःइ.च

- १ वितः र्सेन्द्रिनः म्बार्यसः मान्ते त्यसः तनमार्देन्द्रमः
 - गो प्रतासायराम्यादेरसुग
 - ष विद्यु:क्ट्यंट्यं त्राम्यायनम् व्यूट्युम

 - ८) र्थः श्लेका उमा मीका तनमा र्वेट खुम
- ४ व इतः चे स्वातः चे स्वातः चे स्वातः चे स्वातः च
 - ग्रे विकादरर्स्ट्र के स्रेस् स्रेस रे कि दायश
 - मि भेर्नुकार्थे । जन्म यहार कानी सामा की दाया
 - ग्रे गुलंब.चे.लुष्य.तथा
 - र्रे अचि.श्रुष्टान्या
- व्यो व्यार्टियेन्द्रन्य व्यागिर्वेषाव्यायन्द्रनः वेरावदःश्लेववः व्यार्टियेन्द्रन्याक्षेवावेरावीयदिः
 - गो व्यक्त महिमान् र खेना सुना की वा
 - त्यो <u>त्र</u>सःमाङ्गेशः ५८:ख्वेतः शः सुनः श्लेबा
 - ग्रे त्रुभः भ्रेत्रगाः सुन् स्थेत्।
 - ह्ये व्याप्ति स्वाप्ति स्वापति स्वाप्ति स्वापति स्वापति
- - ग र्वाचित्रं म्याचित्रं व्याचित्रं व्याचेत्रं व्याचित्रं वित्रं वित्
 - विश्वामुक्षः वित्रुष

- ग ने ने जुरमाशुक्ष र्घे द दुग
- र् वे कुरम्बेग्यस्यार्वेद्रस्य
- ५) अ चुति चुः कुरम्बुअर्थं तर्ने ...
 - गो वःस्रिन्द्रच्छ्राः श्चान्येश्वात्वन्ध्रिन्यः क्षेत्रायश्

 - ग] चुर्बे छोद प्रश्
 - ५) वुःसॅ५ःक्षेद्रायम्।

इ.च. ष्र्रे ल्यांभीयः ह्यें रायाची देवा

र्तेगामी द्वीत्रान्ते त्या विष्यात्र विषयात्र विषयात्य विषयात्र विष

- ८) अरथसार्थिः ईवा स्रुक्षः बेरस्थिति देः
 - गो बेरायर्येदीन्धे खेदायया
 - ष्ये यम्नेषः मुतः द्येः क्षेत्रः यमा
 - म्रो दर्श्वरम् मुः द्रभः भी
 - र् अस्यकृतिर्घे क्षेत्र यथा
- में क्रिंचवतः.....अयाची वेरावतिकार्क्रेटावरः सर् गार्डार्वेवार्वोधार्क्रे?
 - गा रे प्रचर ह्यार मून ख्रिया
 - मि सें र्वेच न्वेंय छी
 - गो पर्ने ह्यान्म्यिस
 - ५) हैं र्वेच ५ वीं मा छोता

र्] र्क्षेत्रतह्याःचीशायननः श्रीन्याबितःहेन् सुायणुरुरावर्णुःशायनेः निम्य

गो चह्नम्या मल्दा चल्ता नुस्ता चनुसाक्षेदा

मि चनेता चडी नर्गेया चली चडुअः छीता

मो वर्षी रचना रचिया रव्यवा चन्नुकाकी वा

८) अञ्चता अर्घा नर्गेत्या यहेगा पत्तुमः क्षेता

ते श्रींच-र्न्यंब-----श्रींच-श्रेंब-पदी- विवाकी बेर-चरी-श्राक्षेंट-ब्रट- स्र-

गो गी. यहून:लोबी

ष्ये ग्रीः यध्याक्षित्र

ग्रे ग्रीसः दर्घनःश्रेत्रा

र् जे की पर्स्र की वा

१० वर्षायरः मुवा बेरः चर्तः श्लवशः मुवः बेरः चरिः र्वेगः राष्ट्रीः

गो रुषःक्षेताःश्लेता

ष्ये बुरायब्रेथावुर्धमास्त्रेत्रा

ग्रे चेंद्रायेदाय्याक्रियाः होत्रा

५) श्रुव्यःक्रेंगःक्षेत्रा

इ.स. म्रो श्रद्धमालमालयक्त्रीइस्

र्देगानी इ.च.र.सु. लब.चलु.र्झ्स्ट्रि.श.लम. लब.र्झ्.म. म.लुब.श्र.पर्ट. मेरेशायामीची

११) विषाः हिवामी ले सातुः

यो यह.स. इरक्षेय.लुरी

प्रचाया विष्युः विस्तुनः ख्रीयः

- म्रो द्युदःहः बेरःस्रुदःक्षेत्रा
- र्रे श्रियःमग्रमः च्रेसःश्रुवःश्रेवाः
- १५२ कर्म्याञ्चस्याञ्चेस्याची । विस्याणायाः चर्याचान्त्र्ये स्थायन्। विस्याच्याः स्थायन्। विस्याच्याः स्थायन्। विस्याच्याः विष्याच्याः विस्याच्याः विस्याचः विस
 - ग्ने र्षेर्प्रिंर्र्र यड्भःडेगः बेर्प्वरेर्द्र्राक्षेत्
 - म ने अन् अन् सन् रहा यहा सं स्वा केरा मारी में विष्
 - गो र्षेन्द्रस्येन्द्रः बेरावदेर्व्वाक्षेत्रा
 - र्) र्षेत्यायञ्च्याः सेत्यायञ्च्याः नेरायदेः र्देदाः सिद्
- १५) वेंबा बी हें ५ किंवा र्क्ष त्था हें दाय ५ वा वेंबा वर्षे ।
 - ग्रे विष्याचनान्धरवात्वरा सुन्यायन्तरः र्रेक्टाणी ब्रेस्कायन्द्रिकी
 - प्रे विष्यत्रमा निष्या मित्रमा मित
 - म्रो लयान्नम् न्ध्रम्यायमः र्द्धम्मायन्तरः क्राम्ये। बेराक्षेयदि
 - ह्रे विष्याचना निह्यालया र्राक्षियी सेवीयायनराम् इम्.सी.पर्टी.सीवी
- १६) मन्दरप्रने स्रायनमार्भिमा बेराश्चरानेश बेराशिपर्ने लेखा दरप्रमन्य उद्य
 - यो यर्षेत्रपर्दे. सर.चर्रिश्चराष्ट्रियं ब्रेस्-स्रीचर्द्रश ब्रेस-र्स्गी
 - मि ग्राम्बर्ग्य स्थानसूस्रामा चेत्र स्थान स्थान
 - म् वर्षियात्राचीरवातर्थः त्रस्यवर्धाःभूषाः इस्याश्चरत्राः देश इसः श्विचः रस्
 - र् चलुगमान्त्रादर् यरायनगःभ्रिगाचेरास्त्रमानेमा चेरा सुनार्नेग्रा
- १५) कें द्राचर्स्य द्रवस्य त्युः वे स्वतः वरः
 - गो भुःचर्रेऽःऽरायःहेःबेरःश्चवःश्वेदा
 - त्रे भुंकें-५८-भुंप्वर्श्न चेर-भुंप-छेत्।

- ग्रे प्राहेर्द्रियम्बर्षेत्र
- मु.कें:५८ः भु:चर्स५:वस्रश्चरःश्चेवाःक्षेत्रा

इ.च. र्रे इश्चरम्यत्वीवीतिःइ.च

१८) विश्वायेत्र बेराचदिः इसामारसः देवा वी पत्नी पत्नी वासा वा पर्ने देसा प्रवास प्रमुवा में ?

गो प्रमानवेदी वृत्रःश्चःपद्वः प्र्मायननःपर्वमी

ष्ये वनरामी बेराक्षेत्ररी देशवननायरुमा

म् । इस्रायकता बेरासीयही र्वस्रायनमायहुगा

र् वस्याञ्चरम् बेराक्षेयि र्देशयनमायतुग्।

७७) प्रमाद्यम् भूषाम् इसाम् द्रमायाः भूषाम् । इसाम् द्रमायनम् भूषास

गो यश्यन मान्य वेस्की प्रमेशिया

प्यो प्यश्रक्तिया बेर्स्सिय

म् प्रमासर्वे न्यम् वेरस्य वेरस्य विष्

र् यस्य इया बदा बेर से पर्ने छोता

१५) यद्देशमञ्जूषः बेराचतःस्वागीः इसाम्राहरी

गो अर्बे:वेश बेरायवी:नर्गा

प्य विष्युत्राचित्रः बेरादवीः नुर्गी

म् । नम्नियम्बर बेरायवीन्मी

र् अयःवेशः बेरःवर्द्धः नृर्वे।

७५) श्रिस.सं.सं.सं. श्रुट्मी.ध्याचरमानावयः मा.कु.श्रीस.स्ट्र्म्

ग्रे केंद्रसूथ ज्ञूस वेर सून र्दर

ष्रो होल.ञ्च. इरश्चन.ध्र्रा

- ग्रे थर.ह्यु.चिस. चुर.श्रेय.यूर्य
- र् र्रेष्ट्रियः व्यास्त्रियः र्वेरा
- ४०] र्थि. युर्च. युर्च. व्यञ्च. व. चरेटा इंस. चयु. श्रीचर्या. युर्च. च्ये. प्रमाण- व्यञ्च. व्यञ्च. वा. श्रीव. व्यञ्च. व्यञ्च. व्यञ्च. व्यञ्च. व्यञ्च. व्यञ्च. व्यञ्च. व्यञ्च. व्यञ्च. व्यञ्च.
 - गो हेंदर्भेगा
 - ष्रे वरःह्नेंटा
 - गरे इंर≅रा
 - र्रे ऍरशः स्विश

इ.च. २ वर्षाणःश्चरयञ्चःषुप्रःइ.च

र्देगानी इ.प.रे.पी. जब.पथु.र्जूर.श्र.जना जब.र्ट्ज. ब.लु.य.ची.पर्ट. बर्वायामीती

- ११) वहिमाह्नेब्रधुःस्रा बेराचविःवमायासीरा
 - गो पहुंगाःहेवःपर्श्वामा बेराजीवा
 - प्रते यह्नमःहेबःमः वा वेरःश्लेबा
 - गो यह्माहेबःस्याया बेरालेबा
 - र् वह्मान्ह्रेवरहेश्या बेरालीबा
- ४४) पर्हेव त्या का ग्री त्या वा स्थान से वा से त्या त्या वा से वा
 - गारे वे व्या इस के पर है छोता
 - म नगायेत्या बेराक्षेत्रती
 - ग्] इस्राम्येम् बेर्स्सायरीक्षेत्र
 - र् वेश्वा बेरक्षित्र

४३) ५र्मे=सम्भःखेलः बेरःचदिःक्वेमःमैःतम्वासःसेन्दर्भः

ग्रो द्वेगमःचन्नदा

प्य वियायः निश्चेया

यो रेशकार्याया

र्रे श्रेमशः

१८] रुषामान्द्रमुटः मीः तमायाश्चरः र्वेश्वायनप्रभेराश्चीयर्

세기 최고성.최고성

प्रे नश्चि.जन्ना

ग्रे यस्यायस्या

८) छाह्यास्टा

१५) यम्मुषः बेरावदिः र्क्षणाणीः वर्षायाधीरः र्वेषावववाधीर्धाः वर्षे

ग्रे अरुष्ठम् वेरुक्षेत्रसम्

मि वस्यायीय। बेस्स्येयिहस्याय

म् । स्रायम् । व्याप्ति स्रायम्

८) सरक्षा बेर-भे पर्रे किर सम्

SECTION B: ENGLISH LANGUAGE

Part I: Comprehension

Direction: Read the following passage and answer Questions 26-30 by choosing the answer to each question. Answers should be based on the information given in the passage.

The passage given below is from http://www.2iim.com/india_mba_iim_cat_faq/rc-sample-test.shtml.

First AOL and Time Warner announced their intention to combine. Then came Time Warner/EMI and Tribune/ Times Mirror. Even more significant, however, has been the speculation that these mergers have caused: If these transactions are consummated, a large number of additional media mergers are expected. There is even the possibility of a nightmare scenario-a wave of media mergers so large that within a decade most of our information will be supplied by perhaps six of these huge conglomerates and a fringe of much smaller firms.

It's time to ask two critical questions. Is this kind of media oligopoly what we, as a society, want? And if not, can the anti-trust laws effectively prevent the threatened merger wave? The answer to the first question is clear. We do not want a media oligopoly. The answer to the second question, however, is far less certain. We should distrust a media oligopoly because it would give undue control to a small number of individuals. This need not manifest itself in a price rise for the daily newspaper or AOL's monthly fee. Rather, it could consist of a change in editorial viewpoints, a shift in the relative prominence of links to certain websites or a decision not to cover certain topics, because they are not "newsworthy". These problems could exist without any improper intent on the part of the media barons. Even if they try to be fair and objective, they will necessarily bring their own worldview to the job. And in time some of these conglomerates may be controlled by people who are not fair or objective.

At first it might appear that the anti-trust laws can be of little help in grappling with the issues presented by large media mergers. The anti-merger laws are commonly understood as protecting price competition and a relatively small number of firms - to greatly oversimplify, let's say at most half a dozen - are normally thought to be enough to keep a market price - competitive. In industry after industry, firms merge until there is only a handful left, and the anti-trust enforcers are normally unable to do anything to prevent this. (In former years mergers were governed by an "incipiency" standard that prevented mergers and merger waves well before they would have led to very large or likely anti-competitive problems.) Even if a handful of firms are enough to insure effective competition in most industries, would six conglomerate media firms be sufficient for the diversity of viewpoints necessary to democracy? Would we be reassured if they could somehow guarantee that they would sell their magazines and internet advertisements at competitive prices?

I am hopeful that the anti-trust laws, if correctly and vigorously interpreted, are adaptable enough to meet this challenge. This is because anti-trust is not exclusively about price. It is essentially about choice - about giving consumers a competitive range of options in the marketplace so that they can make their own, effective selection from the markets' offerings. Consumers should be able to make their choices along any dimension important to them - including price, variety and editorial viewpoint.

Communications media compete in part by offering independent editorial viewpoints and an independent gatekeeper function. Six media firms cannot effectively respond to the demand for choice or diversity competition by extending their product lines, because new media products will inevitably bear, to some degree, the perspective of their corporate parent. For these reasons competition in terms of editorial viewpoint or gate-keeping can be guaranteed only by insuring that a media market contains a significantly larger number of firms than is required for price competition in other, more conventional markets.

It is unclear, however, whether this interpretation of the anti-trust laws will be applied by the enforcement agencies and the courts. What is needed, therefore, is a much more careful look at the challenges that will be raised by future media mergers.

This could best be accomplished if Congress created a Temporary Committee to Study Media Mergers and Media Convergence. This committee could include members of Congress, the heads of the Federal Trade Commission, the Federal Communications Commission, the Justice Department's anti-trust division, CEOs of media companies, and the representatives of consumer groups. The committee would identify problems that may be caused by large media mergers and by media convergence. If the committee concludes that existing anti-trust laws are inadequate, it should recommend to Congress that new anti-merger legislation be enacted. This may be the only way to prevent the nightmare scenario of a media oligopoly.

26. A wave of media mergers could

- A. be a threat to democracy.
- B. result in limiting editorial viewpoints.
- C. result in misuse of certain laws.
- D. both (A) and (B).
- 27. According to the passage, what could be the most significant outcome of media oligopoly?
 - A. An increase in the cost of newspapers.
 - B. A shift of power to people who might not be balanced and fair in their views about the media.

- C. Certain websites may get more prominence than others.
- D. There will be no competition among the newspapers.
- 28. Which of the following statements, according to the author, are true:
 - (i) Half a dozen firms are enough to keep the market price competitive.
 - (ii) Half a dozen companies are not enough to provide a democratic media.
 - (iii) Enforcement agencies may not interpret the anti-trust laws correctly.
 - (iv) Half a dozen companies will be inadequate to meet the consumer demand for product diversity.
 - A. (i), (ii)
 - B. (i), (ii), (iii)
 - C. (ii), (iii), (iv)
 - D. (i), (ii), (iii), (iv)
- 29. The current anti-trust laws
 - A. are not at all sufficient to deal with issues relating to large scale media mergers.
 - B. can prevent mergers from happening.
 - C. will be effective if properly interpreted.
 - D. favour a particular company or group of companies.
- 30. To get a clear picture of the challenges posed by media mergers, the author recommends:
 - A. Creation of strict laws.
 - B. Strengthening the enforcement agencies.
 - C. Creation of a study committee by the Congress.
 - D. None of the above.

Part II: Grammar

Direction:	Select the idiomatic se		or	phrase	to	complete	the	following	grammatical	and
31. Agricultur	e in Bhutan	has		industria	al p	rogress.				

- A. kept pace with
 - B. kept paces along

	C.	kept its pace for
	D.	kept pace together with
32.	He is _	if he does not meet this situation boldly.
	A.	unworthy of his salt
	B.	not worth his salt
		not of worth to his salt
		not worth of the salt
33.	I know	I have a copy of the book you need, but at the moment, I can't it.
	A.	lay my hands on
	B.	lay my hands to
	C.	lay my fingers on
		lay my fingers to
34.	Dema i	s a great hand organizing meetings.
	A.	in
	B.	at
	C.	for
	D.	to
35.	Did yo	u think you somewhere before?
	A.	saw me
	B.	seen me

Part III: Vocabulary

had seen me

have seen me

C.

D.

36. Correctly match the words in column A to their meanings in column B and choose the correct response pattern.

Col	lumn A	Column B	
1	decent	W	fanciful or unreal occurrence
2	descent	X	to disagree or to differ in opinion
3	dissent	Y	appropriate or in good taste
		Z	to decline or the act of moving downward

- A. 1=Z, 2=Y, 3=X
- B. 1=Y, 2=Z, 3=X

- C. 1=Y, 2=W, 3=Z
- D. 1=X, 2=W, 3=Z
- 37. What is the 'tube' or 'underground' in Britain synonymous to in America?
 - A. mafia
 - B. maize
 - C. potato
 - D. subway
- 38. Which of the following sentences best differentiates between the words "illicit" and "elicit"?
 - A. illicit means 'legitimate' and elicit means 'exclusive'.
 - B. illicit means to 'support legally' and elicit means 'reject the law'.
 - C. illicit means 'illegal' and elicit means 'extract a reply or reaction'.
 - D. illicit means 'direct meaning' and elicit means 'not directly but indirectly implied'.
- 39. Which of the given words can substitute the sentence given below:

Parts of a country behind the coast or a river bank.

- A. Swamps
- B. Archipelago
- C. Isthmus
- D. Hinterland
- 40. Who is a fanatic?
 - A. One filled with excessive and mistaken enthusiasm in cause
 - B. A Martyr who can sacrifice his/her life
 - C. A Pedant who criticizes religious beliefs
 - D. A Patriot.

Part IV: Synonyms

- 41. The word *demeanor* has similar meaning to
 - A. bearing
 - B. balance
 - C. behaviour
 - D. background

42. Choose the word that is closest in meaning to the underlined word in the sentence.

I rather like the <u>quaint</u> little house at the end of the street.

- A. old
- B. quiet
- C. haunted
- D unusual
- 43. Choose the word that is closest in meaning to the underlined word in the sentence.

The Principal had a sympathetic presence, <u>albeit</u> a commanding one.

- A. further more
- B. because
- C. not only
- D. although
- 44. The word *intermittent* has the same meaning as:
 - A. prolonged
 - B. sporadic
 - C. incoherent
 - D. intervening
- 45. Choose the word that is closest in meaning to the underlined word in the sentence.

In light of the evidence produced in court, it was the judge's decision to exonerate her.

- A. acquit
- B. convict
- C. censure
- D. condemn

Part V: Antonyms

- 46. Which of the following words has the opposite meaning of "success"?
 - A. diminish
 - B. fiasco
 - C. refutation
 - D. catastrophe

47	XX71 1 C.11	C 11 .	1 1	.1		r ((* 220
4 /	which of the	ne tollowing	words has	the opposite	meaning of	f "increase"?
. / .	* * 111011 O1 t1	10110 111112	, words mas	the opposite	incuming of	i illorouse.

- A. shrink
- B. restrain
- C. dwindle
- D. replenish
- 48. Choose the word that means the opposite of the underlined word in the statement.

The world media has tended to focus far more upon the occasional <u>discord</u> than on the spectacular achievements.

- A. tranquility
- B. harmony
- C. failure
- D. confusion
- 49. Choose the word that means the opposite of the underlined word in the sentence.

He was poor and arrogant.

- A. conceited
- B. haughty
- C. proud
- D. timid
- 50. Choose the word that means the opposite of the underlined word in the question.

What can we do to <u>alleviate</u> the pain?

- A. elevate
- B. sharpen
- C. aggravate
- D. promote

SECTION C: PROBLEM SOLVING

51. If yo	ou roll a fair-sided die twice, what is the probability of getting a double?
A.	1/3
B.	1/6
C.	1/12
D.	1/24
52. Name	e the 3-digit number. My ones digit is an even number which is three times as much as
my te	ns digit. My tens digit is the same as my hundreds digit. The sum of all my digits is 10.
Whic	h number am I?
A.	424
B.	028
C.	226
D.	622
53. Read	the statements given below and answer the question that follows.
Dorj	i saw more movies than Penjor.
Penj	or saw fewer movies than lhamo.
Lhar	no saw more movies than Dorji.
If fir	st two statements are true, the third statement is
A.	true
B.	false
C.	uncertain
D.	both (A) and (B)
54. What	is the missing letter: A F D I G L J
A.	O
B.	M
C.	P
D.	Q

- 55. Read the statements given below and answer the question that follows.
 - Fact 1: Tissot watches cost between Nu. 1000 and Nu. 10,000.
 - Fact 2: Some Tissot watches have Titanium frames.
 - Fact 3: Some Tissot watches have steel frames.

If the above three statements are facts, which of the following statements must also be a fact?

- I. Tissot watches with Titanium frames cost more than the one with steel frames.
- II. Expensive Tissot watches last longer than cheap ones.
- III. Only a few Tissot watches cost less than Nu. 1000.
- A. I only
- B. II only
- C. II and III only
- D. None of the statements is a known fact
- 56. Which fraction is greater than $\frac{1}{2}$?
 - A. 2/5
 - B. 4/7
 - C. 4/9
 - D. 5/11
- 57. If you unscramble the letters 'AKBSLLTAEB', you will get the name of a
 - A. place
 - B. sport
 - C. country
 - D. river
- 58. If an object travels five feet in a second, how many feet will it travel in 1 hour?
 - A. 60
 - B. 300
 - C. 1800
 - D. 18000

59. A basket contains 55 apples. The apples are red and green in colour. 20 apples are green in	n
colour. If Sonam randomly picks an apple, what is the probability that she picks a red apple?	

- A. 20/55
- B. 35/55
- C. 20/35
- D. 35/20
- 60. Dorji earns Nu. 15000 in a month. His family uses one LPG cylinder a month. If one LPG cylinder costs Nu. 1200, what percentage of his monthly salary is spent for cooking?
 - A. 8%
 - B. 10%
 - C. 80%
 - D. 92%
- 61. If a/b=0.25. What is the negative value of the reciprocal of the fraction a/b?
 - A. -4
 - B. -5
 - C. -6
 - D. -11
- 62. If Speed = Distance/ Time. Which of the following formula are true?
 - (i) Distance= Speed * Time
 - (ii) Time = Distance / Speed
 - (iii) Distance = Speed / Time
 - (iv) Time = Distance * Speed
 - A. (i) and (ii)
 - B. (iii) and (iv)
 - C. (i) and (iii)
 - D. (ii) and (iv)
- 63. How many two digit numbers are multiples of both 7 and 4?
 - A. 1
 - B. 2
 - C. 3
 - D. 4

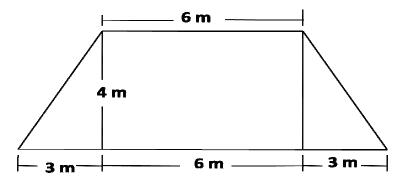
- 64. Car parking along Norzin Lam is charged at flat X Ngultrum for any amount of time up to three hours, and 1/5 of X Ngultrum each hour or fraction of an hour after the first three hours. How much does it cost to park for 5 hours and 30 minutes?
 - A. 2X
 - B. 2.5X
 - C. 3.5X
 - D. 1.5X
- 65. In a family, Sonam weighs twice as much as Choden. Choden's weight is 90% of Karma's. Deki's weight is 120% of Karma's. Who is the heaviest in the family?
 - A. Sonam
 - B. Choden
 - C. Deki
 - D. Karma
- 66. 20 unskilled workers can finish a job in 50 hours. The same job can be finished by 25 skilled workers in 20 hours. If 10 unskilled and 10 skilled workers are employed, how long will they take to complete the same job?
 - A. 30.3 hrs
 - B. 33.3 hrs
 - C. 43.0 hrs
 - D. 45.0 hrs
- 67. A piece of wood 10 meters long is cut into three smaller pieces. If the first one is 2.7 meters and the second one is 3.5 meters longer than the third one, how long is the shortest of the three pieces?
 - A. 3.0 meters
 - B. 3.8 meters
 - C. 2.8 meters
 - D. 1.9 meters
- 68. Two numbers are in ratio of 10:7. If the sum of the numbers is 34, what is the smaller number?
 - A. 14
 - B. 20
 - C. 34
 - D. 17

- 69. In a shop, for every pant there are 3 shirts and for every 9 shirts there are 27 pairs of shoes. Express the ratio of pants to shirts to shoes in the store.
 - A. 2:3:4
 - B. 1:3:9
 - C. 3:7:10
 - D. 4:7:11
- 70. Arrange these fractions in ascending order: $\frac{2}{201}$; $\frac{3}{202}$; $\frac{1}{200}$; $\frac{4}{205}$
 - A. $\frac{2}{201}$; $\frac{3}{202}$; $\frac{1}{200}$; $\frac{4}{205}$
 - B. $\frac{1}{200}$; $\frac{2}{201}$; $\frac{3}{202}$; $\frac{4}{205}$
 - C. $\frac{4}{205}$; $\frac{2}{201}$; $\frac{3}{202}$; $\frac{1}{200}$
 - D. $\frac{3}{202}$; $\frac{2}{201}$; $\frac{1}{200}$; $\frac{4}{205}$
- 71. Person X bought a car for Nu. 500,000. He sold it to Person Y at 20% profit. Person Y in turn sold the car to Person Z at 20% profit. What is Person Y's profit in terms of Person X's profit?
 - A. 100%
 - B. 140%
 - C. 40%
 - D. 120%
- 72. Deki can carry 6 cartoons of milk. If there are 32 boxes of cartoons in her ware house, how many full trips does she have to make for her to transport all the cartoons of milk from ware house to her shop?
 - A. 4
 - B. 5
 - C. 6
 - D. 7

- 73. The pass percentage of a school stands at 95% with 570 students passing the annual examinations. How many more students in the school would have to pass to raise the pass percentage to 98%?
 - A. 18 students
 - B. 25 students
 - C. 20 students
 - D. 15 students
- 74. The weight of an object on Planet X is twice that of its weight on Earth and one third of its weight on Planet Y. If an object on Earth weighs 100 units, what is its weight on Planet Y?
 - A. 200 units
 - B. 400 units
 - C. 300 units
 - D. 600 units
- 75. Four men are trying to catch a crazy bull. Jigme is directly behind the bull. Rinzin is behind Jigme. Rada is behind Rinzin. Migmar is ahead of the bull walking down the street in the opposite direction. As the men and bull run, Migmar turns around and joins the team. He runs in behind Rinzin. Jigme runs faster and is alongside the bull on the left. Rinzin runs faster and is alongside the bull on the right. Which man is directly behind the bull?
 - A. Jigme
 - B. Rinzin
 - C. Rada
 - D. Migmar

SECTION D: DATA INTERPRETATION

- 76. What arithmetic process should be used when deciding how many cookies each child should get when distributing twelve cookies equally among three children?
 - A. Addition
 - B. Subtraction
 - C. Multiplication
 - D. Division
- 77. Study the trapezoid given below.



What is the area of the trapezoid?

- A. 22 m^2
- B. 26 m^2
- C. 36 m^2
- D. 48 m^2

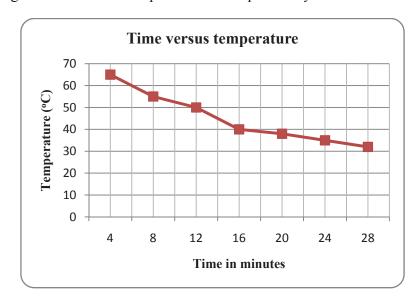
Use the table given below to answer questions 78 and 79

The table shows a series of IQ tests (8 in total), each time with 20 questions, were conducted for two students as shown below:

		No. of IQ test conducted and scores						
Student	1	2	3	4	5	6	7	8
Sonam	15	17	10	12	14	11	9	16
Dechen	15	16	15	17	17	9	17	14

- 78. What is the Mode of Sonam's score?
 - A. The Mode is the average of two middle numbers
 - B. Number 13 is the Mode
 - C. There is no Mode
 - D. The Mode for Sonam's score is 9 to 17

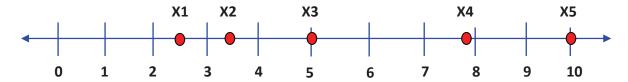
- 79. By how much is Dechen's Mean different from her lowest score?
 - A. 3
 - B. 6
 - C. 7
 - D. 9
- 80. Jigme recorded the temperature of a liquid every four minutes in the graph shown below:



What happens to the temperature of the liquid between minute 8 and minute 16?

- A. It increases by 10°C
- B. It decreases by 15°C
- C. It increases by 15°C
- D. It decreases by 8°C

Use the number line given below to answer questions 81 and 82



- 81. Which point on the number line above could approximately represent $\sqrt{10}$?
 - A. X1
 - B. X2
 - C. X3
 - D. X4

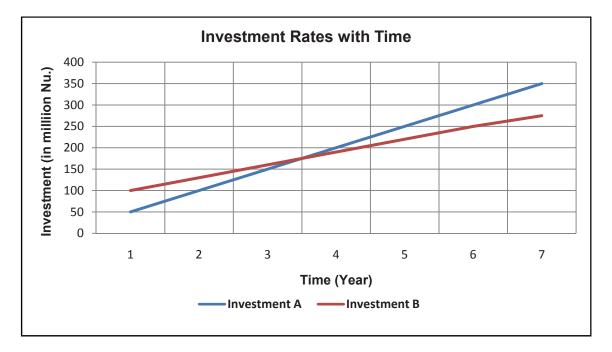


BCSE 2013

- 82. $\sqrt{24}$ is a number between
 - A. 0 and 1
 - B. 1 and 2
 - C. 2 and 4
 - D. 4 and 5

Use the line graph given below to answer question 83

The changing values of two investments are shown in the graph below.



83. How do the amount initially invested and the rate of increase for investment A compare with those of investment B?

Compared to investment B, investment A has a

- A. lesser initial investment and a lesser rate of increase.
- B. lesser initial investment and the same rate of increase.
- C. lesser initial investment and a greater rate of increase.
- D. greater initial investment and a lesser rate of increase.

Use the table given below to answer questions 84, 85 and 86

The table compares four different project plans and the associated time it will take to complete each of the four phases of the plan. The numbers in the table represent the number of weeks it will take to complete the indicated phase.

Timetable to complete the project

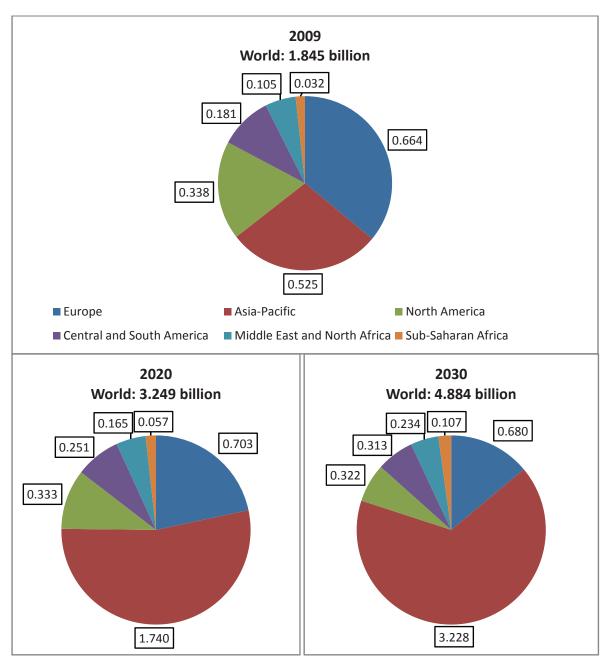
Plan	Phase 1	Phase 2	Phase 3	Phase 4
A	3	4	10	5
В	5	6	9	3
C	1	5	12	9
D	3	3	11	7

- 84. Of the following phases, which will take the longest to complete?
 - A. Phase 1
 - B. Phase 2
 - C. Phase 3
 - D. Phase 4
- 85. If the total number of weeks for Plan D were reduced by 25%, how many weeks would it take to complete the project?
 - A. 18
 - B. 28
 - C. 30
 - D. 35
- 86. If each Plan utilized a new design that eliminated the need for Phase 3, which Plans would take the LEAST and the MOST number of total weeks?
 - A. Plan (A) and Plan (B)
 - B. Plan (B) and Plan (C)
 - C. Plan (C) and Plan (D)
 - D. Plan (A) and Plan (C)

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Use the pie charts given below to answer questions 87, 88 and 89

The pie charts below show the middle class population (billions) in the world in 2009 and projections for 2020 and 2030. (*Ref: Human Development Report 2013*)



87. By what percentage is the middle class in Asia Pacific projected to change between 2020 and 2030?

A	В	С	D
85.52%	66.09%	50.32%	14.88%



88. In 2009, what was the difference in the middle class population in North America against the global middle class population?

A	В	С	D
9.640 billion	8.985 billion	0.852 billion	1.507 billion

89. Which region shows a constant decline in middle class population over the years?

A	В	С	D
Europe	Middle East &	Sub-Saharan Africa	North America
	North Africa		

Use the following data to answer questions 90, 91 and 92

The following data represents unemployed persons by sex who have been seeking work for more than six months.

Age Group	Female	Male
15-19 years	2	1
20-24 years	34	19
25-29 years	28	16
30-34 years	31	20
35-39 years	20	10
40-44 years	5	0
45-49 years	17	6
50-54 years	30	37
55-59 years	4	3

90. What fraction of the unemployed males is 34 years and less?

A	В	С	D
Two third	One half	One fifth	One third

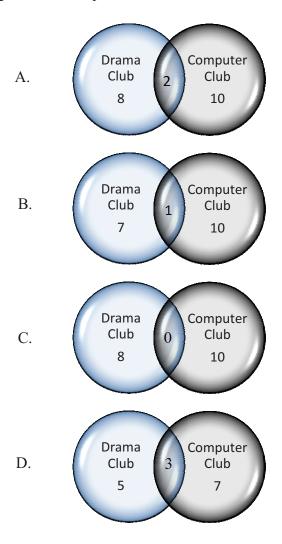
91. What percentage of the unemployed females are 35 years and more?

A	В	С	D
44.44%	50.00%	55.55%	76.00%

92. What is the ratio of Male to Female in the age group of 35 to 39 years?

A	В	С	D
2:1	1:2	5:0	0:5

93. Lopen Sonam has 15 students. Eight students belong to the Drama Club and ten students belong to the Computer Club. Some students belong to both the clubs. Which Venn diagram given below represents these data?



94. Kinley plans to plant one type of flower and one type of vegetable in her garden. She chooses the plants from the table given below.

Plants

Flowers	Vegetables
Roses	Carrots
Tulips	Peas

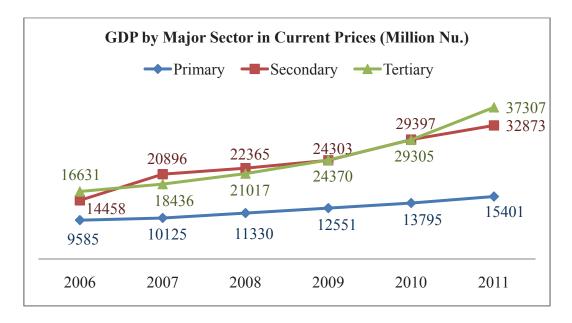
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Which one of the following lists shows all the different combinations of one flower and one vegetable that Kinley can plant?

- A. Roses and Carrots, Roses and Peas
- B. Roses and Carrots, Roses and Peas, Tulips and Carrots, Tulips and Peas
- C. Roses and Carrots, Tulips and Peas, Roses and Tulips, Carrots and Peas
- D. Roses and Carrots, Roses and Peas, Roses and Tulips, Tulips and Carrots, Tulips and Peas, Carrots and Peas.

Use the data in the graph given below to answer questions 95 and 96

The graph below shows the Gross Domestic Product (GDP) by major sector.



95. What is the change in percentage of GDP increase in the Tertiary sector in 2011 against that of the Primary sector in 2006?

A	В	С	D
289.2%	124.3%	74.3%	59.1%

96. In which sector and year was there the highest increase in GDP from the preceding year?

A	В	С	D
Tertiary, 2010	Tertiary, 2011	Secondary, 2010	Secondary, 2011



Use the table given below to answer questions 97 & 98.

The table presents the life expectancy and the healthy life expectancy by sex for five South Asian countries according to the World Health Report, 2004. (In the table, M: Male and F: Female).

	Life Expectancy		Healthy Life Expectancy	
Bhutan	61.3		52.9	
bilutari	M: 60.2	F: 62.4	M: 52.9	F: 52.9
India	61.0		53.2	
IIIuia	M: 60.1	F: 62.0	M: 53.2	F: 53.1
Maldives	66.1		57.8	
ivialuives	M: 66.5	F: 65.6	M: 59.0	F: 56.6
Nonal	60.1		51	8
Nepal	M: 59.9	F: 60.2	M: 52.5	F: 51.1
Sri Lanka	70.3		61.6	
311 Latika	M: 67.2	F: 74.3	M: 59.2	F: 64.0

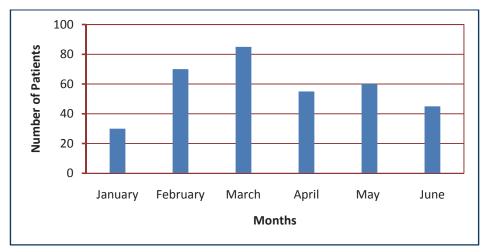
97. What is the difference between the highest and lowest Life Expectancy in the data given?

A	В	C	D
10.3 years	10.2 years	9.3 years	14.4 years

98. The gap between Life Expectancy and Healthy Life Expectancy gives us the expected lost healthy years. What is the average expected lost healthy years for Bhutan, Maldives and Sri Lanka?

A	В	С	D
8.33 years	8.26 years	8.46 years	8.40ears

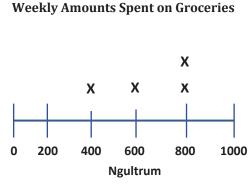
99. The bar graph shows the number of patients who visited the JDWNR Hospital at Thimphu till June this year.



How many more patients visited the Hospital in May than in January?

- A. 15 patients
- B. 30 patients
- C. 40 patients
- D. 80 patients
- 100. Karma goes grocery shopping once a week and keeps track of how much money he spends. He made a bar graph and a line plot to display these data.





What information can be found only on the bar graph?

- A. the number of weeks he shopped
- B. the week he spent the least money
- C. the most money he spent in one week
- D. the least money he spent in one week