

2008

Duration: Three hours (10.00-13.00)

QUESTION PAPER CODE: H8-1

Maximum Marks: 180

INSTRUCTIONS

A. General

1. This booklet is your Question Paper
2. This booklet has 28 pages and 180 questions.
3. Answer ALL questions
4. The Question Paper **code** is printed on the right hand top corner of this page.
5. The Question Paper has blank pages for your rough work. No additional sheets will be provided for rough work
6. **Clip board, Log tables, slide rule, calculator, cellular phone, pager and electronic gadgets in any form are NOT allowed**
7. Write your Name and Registration number in the blank space provided at the bottom.
8. All answers are to be marked on the machine gradable Objective Response Sheet (ORS) provided.
9. The Objective Response Sheet (ORS) must be handed over to the invigilator before leaving the examination hall.

B. Filling in the ORS:

10. Write your Registration Number in the boxes provided on the upper left hand side of the ORS and darken the appropriate bubble under each digit of your Registration number using a HB pencil.
11. Ensure that the code on the Question paper and the code on the ORS are the same. If the codes do not match, report to the invigilator immediately.
12. On the lower left hand side of the ORS, write your name, Name of the Centre and sign in the appropriate box with pen. Do not write these anywhere else.

C. Marking the answers in the ORS.

13. Each question has 4 choices for its answer: (A), (B), (C), (D). Only one of them is the correct answer.
14. On the right hand side of the ORS, for each question number, darken with a HB pencil ONLY one bubble corresponding to what you consider as most appropriate answer, from among the four choices. In case you make a mistake and wish to change the answer, erase the pencil mark completely and darken another bubble.
15. There will be **negative marks** for wrong answers.

| | | | | |
|---------------------|--|--|--|--|
| Name | | | | |
| Registration Number | | | | |

DO NOT BREAK THE SEAL ON THIS BOOKLET. WAIT FOR INSTRUCTIONS FROM THE INVIGILATOR.

1. The Reserve Bank of India was established in the year
(A) 1935 (B) 1947 (C) 1950 (D) 1951
2. Which of the following states received the maximum FDI during the post liberalization period?
(A) Bihar (B) Chattisgarh
(C) Tamil Nadu (D) Assam
3. Licensing requirement for setting up most industries was abolished in the year
(A) 1947 (B) 1951 (C) 1971 (D) 1991
4. The Reserve Bank of India increases the Repo rate mainly to
(A) reduce money supply
(B) increase money supply
(C) control inflation
(D) reduce money supply and control inflation
5. Which of the following is a revenue expenditure on the part of the government?
(A) Expenditure on building
(B) Expenditure on machinery
(C) Investment on infrastructure
(D) Interest payments on debt incurred by the government
6. The WTO headquarters is located in
(A) New York (B) Washington D.C. (C) Doha (D) Geneva
7. UNCTAD is
(A) United Nations Conference on Technology and Development
(B) United Nations Conference on Trade and Development
(C) United Nations Commission for Textiles and Dumping
(D) United Nations Commission for Transnationals and Development
8. FICCI refers to
(A) Federal Industrial Chamber of Commerce in India
(B) Federation of Indian Chambers of Commerce and Industry
(C) Federation of Industrial Chamber of Commerce in India
(D) Fellow of Industrial Chamber of Commerce and Industry
9. Which of the following is NOT considered a direct tax
(A) Octroi (B) Income tax (C) Corporate tax (D) Wealth tax
10. Which one of the following years is known as the “year of great divide” in terms of population growth in India?
(A) 1911 (B) 1921 (C) 1931 (D) 1951

- 11 Lorenz curve is used to measure
(A) Inequalities in income (B) Poverty
(C) Unemployment (D) Inflation
- 12 Which one of the following sectors has been growing at the highest rate for the last five years?
(A) Agriculture (B) Manufacturing
(C) Services (D) Construction
- 13 A fall in the price of a commodity whose demand curve is a rectangular hyperbola causes total expenditure on the commodity to
(A) Increase (B) Decrease
(C) Remain unchanged (D) Indeterminate
- 14 If the income elasticity of demand for a commodity is greater than one, the commodity is called
(A) a luxury (B) a necessity
(C) inferior goods (D) unrelated goods
- 15 The Laspeyres price index measures the cost of purchasing
(A) period 1 quantities at period 1 prices relative to the base period prices
(B) period 1 quantities at period 1 prices
(C) base period quantities at base period prices
(D) base period quantities at period 1 prices relative to base period prices
- 16 Which aspect of taxation involves normative economics?
(A) Impact of a tax (B) Incidence of a tax
(C) Effect of a tax on incentives to work (D) The “fairness” of a tax
- 17 The term “mixed economy” implies the co-existence of
(A) large scale and small scale industries
(B) domestic industry and multinationals
(C) agriculture and industry
(D) private and public sectors
- 18 The main source of employment for the majority of workers in India is the
(A) primary sector (B) manufacturing sector
(C) construction sector (D) tertiary sector
- 19 Frictional unemployment arises when
(A) there is deflationary condition in the economy.
(B) there is heavy industry bias in the economy.
(C) the number of jobs available is insufficient to provide a job for everyone.
(D) it takes time for workers to search for jobs that best suit their skills and tastes.

- 20 TRYSEM deals with
 (A) training of young scientists for employment
 (B) training of rural youth for self employment
 (C) training of young students for employment
 (D) training of urban youth for self employment
- 21 The theme of the Eleventh Five Year Plan is titled
 (A) Towards faster and more inclusive growth
 (B) Education for all children
 (C) Healthcare for all
 (D) Growth with equity
- 22 The difference between GNP and NNP is equal to
 (A) Direct tax revenue (B) Capital depreciation
 (C) Indirect tax revenue (D) Budgetary deficit
- 23 Which one of the following is an apex institution responsible for planning, dispensing and monitoring of credit in rural areas?
 (A) SEBI (B) NABARD (C) RBI (D) NIRD
- 24 A tax that takes away a higher proportion of one's income as the income increases is termed
 (A) Progressive tax (B) Proportional tax
 (C) Regressive tax (D) Indirect tax
- 25 Which of the following is NOT a function of the Reserve Bank of India?
 (A) Issue of currency (B) Custodian of foreign exchange
 (C) Bankers' bank (D) Banker to the public
- 26 The target growth rate proposed in the eleventh five year plan is
 (A) 7% (B) 8% (C) 9% (D) 12%

- 27 Match the list I with list II and select the correct answers using the codes given below the lists :

| <u>List I</u> | <u>List II</u> |
|---|----------------|
| (a) MRTP Act | 1. 1951 |
| (b) Agricultural prices commission | 2. 1973 |
| (c) FERA | 3. 1965 |
| (d) The Industrial (Development & Regulation) Act | 4. 1969 |
| (A) (a)-1 (b)-2 (c)-3 (d)-4 | |
| (B) (a)-4 (b)-3 (c)-2 (d)-1 | |
| (C) (a)-4 (b)-1 (c)-2 (d)-3 | |
| (D) (a)-2 (b)-4 (c)-1 (d)-3 | |

- 28 The word “economy” comes from the Greek word “Oikonomos” which means
- (A) production and business
 - (B) one who manages a household
 - (C) one who makes decisions
 - (D) environmental resources
- 29 Economists use the phrase “there is no such thing as a free lunch”, to illustrate the principle that
- (A) goods are scarce
 - (B) people face trade-offs
 - (C) income must be earned
 - (D) households face many decisions
- 30 Economists use the word *equity* to describe a situation in which
- (A) each member of the society has the same income.
 - (B) each member of the society has access to abundant quantities of goods and services regardless of his or her income.
 - (C) the benefits of society’s resources are distributed fairly among its members.
 - (D) there is optimal utilisation of scarce resources.
- 31 What you give up to obtain an item is called
- (A) opportunity cost
 - (B) explicit cost
 - (C) true cost
 - (D) direct cost
- 32 Official poverty estimates in India are based on
- (A) Income
 - (B) Expenditure
 - (C) assets owned
 - (D) status of employment
- 33 Which of the following commodity groups registered the highest rate of export growth during the last three years?
- (A) Gems and jewellery
 - (B) Leather goods
 - (C) Ores and minerals
 - (D) Chemical and related products
- 34 Which of the following groups of countries signed the framework agreement on the Bay of Bengal initiative for multi-sectoral technical and economic co-operation (BIMSTEC) in 2004?
- (A) Bangladesh and India
 - (B) Nepal and Pakistan
 - (C) Myanmar and Singapore
 - (D) Malaysia and Nigeria

- 35 The committee on capital account convertibility was headed by
(A) S S Tarapore (B) C Rangarajan
(C) S Venkitaramanan (D) M Narasimham
- 36 The Human Development Report of UNDP for 2006 ranks India in terms of the Human Development Index at
(A) 115 (B) 120 (C) 126 (D) 130
- 37 The Valmiki Ambedkar Awas Yojna (VAMBAY) 2001 is meant for
(A) construction of houses for people belonging to Scheduled Castes
(B) construction of houses for people belonging to Scheduled Tribes
(C) construction and upgradation of dwelling units for slum dwellers
(D) construction of dwelling units for the rural poor
- 38 When an exchange rate quotation is given in dollars per foreign currency unit it is said to be in
(A) direct or American terms
(B) indirect or European terms
(C) direct and European terms
(D) indirect and American terms
- 39 The World Development Report 2007 is titled
(A) Development and the Next Generation
(B) Environment and Development
(C) Investment Climate and Development
(D) Infrastructure and Development
- 40 The Third National Family Health Survey (2005-06) was co-ordinated by
(A) Institute of Economic Growth
(B) National Council of Applied Economic Research
(C) National Sample Survey Organisation
(D) International Institute of Population Sciences
- 41 According to many Buddhist chronicles, which of the following ranks as the 'highest' *varna*
(A) Vaishya (B) Kshatriya
(C) Brahmana (D) Shudra
- 42 The parable of the five blind men and the elephant is illustrative of *nayavada*, a school of thought mainly found in
(A) Jainism (B) Buddhism
(C) Taoism (D) Charvaka

- 43 Bodh Gaya, where Buddha attained enlightenment, is situated today in
(A) Bihar (B) Jharkhand
(C) Uttar Pradesh (D) Nepal
- 44 The *Brahmasutra* is attributed to
(A) Bharata (B) Sankara
(C) Brahmagupta (D) Badarayana
- 45 In the *Mahabharata*, the events of the battle are relayed to the blind Dhritarashtra by
(A) Vidura (B) Sanjaya (C) Dushasana (D) Kunti
- 46 The political treatise *Arthashastra* is said to be a composition of
(A) Vikramaditya (B) Manu
(C) Chanakya (D) Paramartha
- 47 The name *Iran* is etymologically linked to the term
(A) Sumerian (B) Aryan (C) Arabian (D) Ionian
- 48 *Brahui*, an ancient Dravidian language is still spoken in parts of
(A) Tamil Nadu (B) Sri Lanka (C) China (D) Pakistan
- 49 Emperor Jahangir was originally named after the Sufi saint
(A) Sheikh Nizamuddin Awliya (B) Sheikh Saleem Chisti
(C) Khwaja Moin-ud-din Chisti (D) Baba Farid Shakarganj
- 50 *Satyagraha* as a political method was first used by Gandhiji in 1906 in
(A) Durban (B) Pietermaritzburg
(C) Johannesburg (D) Port Elizabeth
- 51 The educational institution established around 1870 by Sir Sayyad Ahmad Khan is known today as
(A) Aligarh Muslim University (B) Jamia Millia Islamia
(C) Darul Uloom Deoband (D) Osmania University
- 52 The repressive Vernacular Press Act of 1878 was repealed in 1882 by the colonial administration under
(A) Lord Canning (B) Lord Ripon
(C) Lord Chelmsford (D) Lord Wellesley
- 53 Gopal Hari Deshmukh, a close associate of Mahatma Jotiba Phule, is also known as
(A) Lokhitavadi (B) Lokmanya (C) Lokapriya (D) Lokottaravadi

- 54 The major objective of the Sarvodaya Movement started by Vinoba Bhave was
(A) uplift of the villages, especially the landless people
(B) welfare of the thousands of cotton mill workers
(C) a sustainable credit mechanism for small farmers
(D) education of the girl child
- 55 The 'Social Purity Movement' advocating temperance and combating the *devadasi* custom was started by
(A) Viresalingam Pantulu (B) Pandita Ramabai
(C) E.V.Ramaswamy Naicker (D) Venkata Ratnam Naidu
- 56 Article 356 of the Constitution of India is vital with respect to
(A) universal franchise (B) federal structure
(C) budgetary allocations (D) inter-state relations
- 57 Which one of the following Indian states currently has a government led by a communist party?
(A) Tripura (B) Manipur (C) Meghalaya (D) Nagaland
- 58 The ruins of Hampi attest to the architectural achievements of the
(A) Hoysala kings (B) Vijayanagar empire
(C) Satavahanas (D) Chalukyas
- 59 The first rock cut temples in South India were built during the reign of the
(A) Cholas (B) Cheras (C) Pallavas (D) Hoysalas
- 60 Which of the following is said to be connected to the origins of classical Indian music?
(A) Sama Veda (B) Natyashastra
(C) Rig Veda (D) Silapadikaram
- 61 You would most likely befriend a Maori in
(A) Peru (B) Chile
(C) Argentina (D) New Zealand
- 62 Who was the president of the USA when the Vietnam war actually ended in 1975?
(A) Lyndon Johnson (B) Gerald Ford
(C) Richard Nixon (D) Dwight Eisenhower
- 63 The European Union DOES NOT include
(A) Austria (B) Sweden
(C) Switzerland (D) Belgium

- 64 In 2007, Russia announced that it was suspending
(A) The Warsaw Pact
(B) The Conventional Forces in Europe Treaty
(C) The Strategic Arms Reduction Treaty
(D) The Nuclear Non-proliferation Treaty
- 65 The USA has proposed a missile defence shield, part of which will be located in
(A) Slovenia (B) Slovakia (C) Poland (D) Hungary
- 66 Which of the following adjectives DOES NOT appear in the Preamble of the Constitution of India?
(A) Socialist (B) Liberal (C) Democratic (D) Sovereign
- 67 Kiran Desai won the Man Booker Prize in 2006 for her novel
(A) *Baumgartner's Bombay* (B) *Hullabaloo in the Guava Orchard*
(C) *The Inheritance of Loss* (D) *The God of Small Things*
- 68 The Ramon Magsaysay award for excellence in Journalism was given in 2007 to
(A) Swaminathan S Ankalesaria Iyer for his columns on economics
(B) P. Sainath for his work on the rural poor
(C) Harish Khare for his writings on politics
(D) Amita Malik for her critique of the media
- 69 Choose the odd one out:
(A) Odissi (B) Kalaripayattu
(C) Manipuri (D) Bharata Natyam
- 70 Satyajit Ray first scored music for his film
(A) Pather Panchali (B) Jalsaghar
(C) Devi (D) Teen Kanya

(Q. 71 & 72): Choose the best option to complete the sentences.

- 71 _____ of the impending danger, she will not anticipate it.
(A) If you have warned her
(B) Unless you warn her
(C) Until you have warned her
(D) Unless you warned her
- 72 If you extended an invitation to him, _____
(A) he would have been pleased to come.
(B) he will have been pleased to come.
(C) he will be pleased to come.
(D) he would be pleased to come.

(Q. 73 to 76): Fill in the blanks with the correct alternative.

- 73 You agree that she is one of the best singers, _____
(A) isn't she? (B) isn't it? (C) don't you? (D) aren't they?
- 74 As I have known you well for ten years now, I _____ all that you say.
(A) am believing (B) believe
(C) believed (D) have been believing
- 75 When we _____ lunch, we will go for a walk.
(A) have (B) are having (C) shall have (D) have had
- 76 As the lecture was on a burning issue, several questions _____ during question time.
(A) came in (B) came about (C) came up (D) came by

(Q.77 & 78): In the given sentences, the underlined parts are labelled A, B, C, D. Identify the part that contains a mistake.

- 77 The member in his report to the chairman of the committee deplored that certain departments had not allotted adequate funds in the annual budget
(A) The member in his report
(B) deplored that certain departments
(C) had not allotted
(D) in the annual budget
- 78 The teacher told the students, "Unless you express better your communication will continue to be vague or ambiguous."
(A) told the students (B) you express better
(C) communication will continue (D) vague or ambiguous
- 79 Pick out the incorrect sentence
(A) Kiran prefers having four toasts and a glass of milk for breakfast.
(B) When Tendulkar scored a double century he was the toast of the team.
(C) On the occasion of the passing-out parade, the colonel proposed a toast to the new cadets.
(D) He toasts the bread till it is almost charred.

(Q. 80 to 85): One of the following sentences is grammatically correct. Pick out the correct sentence.

- 80 (A) The work of people employed in voluntary organisations is about helping people to help themselves.
(B) Work of the people employed in voluntary organisations is about helping people to help themselves.
(C) The work of people employed in voluntary organisation is about helping people to help themselves.
(D) The work of the people employed in an voluntary organisation is about helping people to help themselves.
81. (A) I am sorry I could not keep up my word.
(B) Reading is stressed on in English classes in some schools.
(C) A few officers were transferred out after the new ministry took office.
(D) The vacancy that arose after the judge's retirement was filled immediately
- 82 (A) Thank you for having been with us. We look forward to see you again.
(B) She laid down on the settee.
(C) I would like to familiarise with the latest teaching methods.
(D) Latha sang the song fairly pleasantly.
- 83 (A) I have to catch up all the lessons I missed.
(B) I have to catch up on all the lessons I missed.
(C) I have to catch on to the lessons I missed.
(D) I have to catch all the lessons I missed.
- 84 (A) Driving in the city during the evening rush hour and reaching home late
(B) Before picking out an interesting wall paper pattern that went well with furniture
(C) After getting estimates from five contractors, he decided to do the work himself
(D) Asking the interviewer how often she would have to work on weekends
- 85 (A) The programme is about computers and their affect on our lives.
(B) The programme is about computers and their affects on our lives.
(C) The programme is about computers and their effect on our lives.
(D) The programme is about how computers effect our lives.
- 86 Pick out the best inference for the given sentence
You ought not to have gone there, Priya.
(A) Priya went there.
(B) Priya might have gone there.
(C) Priya did not go there.
(D) Priya must have gone there.

- 87 Which of the alternatives does not convey the meaning of the given sentence?
They claim that his group's performance is the best.
(A) It is claimed that his group's performance is the best.
(B) His group's performance is claimed to be the best.
(C) The claim made by the group's performance is the best.
(D) They said: "His group's performance is the best."
- 88 The given jumbled sentence has been rephrased. Pick out the correct alternative.
Usually get teeth I every my months examined three
(A) Every three months usually I get my teeth examined.
(B) Every three months I get my teeth examined usually.
(C) I get my teeth usually examined every three months.
(D) I usually get my teeth examined every three months.
- (Q. 89 & 90):** Which one of the given word pairs is similar to the following?
- 89 Bonafide:genuine
(A) Bistro: tavern (B) Per se: accordingly
(C) Faux pas: accuracy (D) In toto: partially
- 90 Sacred: sacrilegious
(A) hedonist: pleasure-seeker (B) ambiguous: ambivalent
(C) apathy: indifference (D) professional: amateur
- 91 Pick out the appropriate antonym for the given word:
Judicious
(A) imprudent (B) careful (C) immaculate (D) sensible
- 92 Pick out an appropriate synonym for the given word:
Fables
(A) true stories (B) Prayers
(C) moral tales (D) Legends
- 93 Choose the most appropriate synonym for the words in brackets in the following sentence:
I have read the document carefully, but I do not (draw a conclusion) anything dishonourable.
(A) imply (B) infer (C) refer (D) Expect
- 94 Choose the best synonym for the underlined word in the given sentence
The earth's eco systems absorb roughly half of the annual global anthropogenic emissions of about twenty-eight billion tonnes of carbon di-oxide
(A) natural (B) organic (C) man-made (D) intrinsic

- 95 Choose the best antonym for the underlined word in the given sentence
In proposing a ban on strikes, the Soviet leadership wished to nip incipient labour movement in the bud.
(A) nascent (B) full-blown (C) shooting up (D) beginning

(Q. 96 & 99): Choose the best alternative for the underlined words in the given sentences

- 96 In both physical appearance and personality, John takes after his father.
(A) differs from (B) imitates
(C) follows (D) resembles
- 97 The TV news can only touch on several daily events; it cannot examine them deeply.
(A) mention casually (B) elaborate
(C) characterise precisely (D) investigate
- 98 Though it was their first meeting, they got along like a house on fire.
(A) in an argumentative way
(B) perfunctorily
(C) in a very friendly manner
(D) aggressively
- 99 The house is at sixes and sevens because we have just moved in.
(A) in a state of confusion
(B) filled with several cracks on the floor
(C) covered with a great deal of dust
(D) infested with insects.
- 100 Which of the following is a quotation from Shakespeare?
(A) A thing of Beauty is a joy forever
(B) What a piece of work is man!
(C) They also serve who only stand and wait
(D) Therefore, send not to know for whom the bell tolls, it tolls for thee

- 101 Pick out the one that does not belong to the group
(A) ALL FOR LOVE (B) ALL MY SONS
(C) ALL IS WELL THAT ENDS WELL (D) ALL THE KING'S MEN

Read the passage given below and answer questions 102 to 109

The history of symphonic recording began in a Berlin box room nine months before the first world war and ended nine decades later, without fanfare or lamentation at either end. The start can be dated more precisely than the end. On 10th November 1913, the celebrated Hungarian conductor Arthur Nikisch took 40 musicians from the Berlin Philharmonic Orchestra into a studio operated by the German offshoot of the London-based Gramophone Company, known as Deutsche Gramophon (DG).

Arranged around the Edison horn, the musicians performed Beethoven's 5th, the first credible recording of a complete symphony. Nikisch, a master of the ironically drooped eyelid, pronounced himself satisfied with the result and endorsed the sound as "simply overpowering." The set was issued in February 1914 on four records at the prohibitive price of 48 marks, and shipped internationally, one disc at a time, the last of the four movements reaching England in August 1914.

Greater events occluded its immediate reception but, from the end point where we now stand, this box of fragile discs soars from a romantic mist, like the Caspar David Friedrich painting of the lonely mountaineer, as a peak moment in the evolution of orchestral music, its performance and, not least, its reception. Before the Nikisch Beethoven 5th, there was no objective way of assessing the qualities of an orchestra and the influence of its conductor on the art of interpretation. Critics could listen intelligently to any number of ensembles in similar repertoire on successive nights, but their judgement was subjective. Even if a critic had the opportunity to study markings in the players' scores, showing alterations and shifts of emphasis, even if he discussed philosophy with the conductor and sat through performances with a stop-watch in hand, the comparison of one Beethoven concert with another by an Eduard Hanslick or a George Bernard Shaw (London's most entertaining concert reviewer of the 1890s) is no more useful, then or now, than a pair of poetic descriptions in classical Greek of the physical attributes of Helen of Troy. Which way did her nose turn? Who really knows?

With the Nikisch set in hand, doubt was dispelled. Critics could go from one concert to another and test their bearings against a fixed meridian. Music ceased to be ethereal and the concert was no longer the supreme and final goal. How music was performed had to be retuned in the recording age to a different way of listening, no longer intensively and exclusively in the concert hall, but in the living room, in the bedroom, or on new-fangled portable players. Artists grew conscious that they were being listened to not with fixed attention by a captive audience, but as a background to other activities like writing or washing up. An alternative approach to interpretation was required.

Over time, all leading conductors committed their work to recorded media with greater or lesser enthusiasm. By the end of the 20th century, there were 276 recordings of Beethoven's 5th and 435 of Vivaldi's *Four Seasons*. Points of interpretation were contested in sleeve notes and fanzines between literalists and contextualists, period instrumentalists and diehards of the big band sound. Every shade of musical opinion was manifest on record.

And then the music stopped. The reasons why need not detain us long; they will have a familiar ring to anyone who has ever worked in a corporate environment which values bottom line and executive time above vision and tradition. The central labels (the so-called majors), panicky before the dotcom boom, were gloom-struck by the realisation that many good things, music included, could be had for free on the internet. Midway through the 1990s, they decided with intuitive unanimity -in

much the same way as they never, ever fix record prices-that classical records, at 2 per cent of their global turnover and below pop profitability, were dispensable. Production quotas were slashed and artists were despatched by the tumbrel-load to the guillotine of oblivion, their recording careers ending overnight.

Since all good things come to an end, one ought to be philosophical about the decline of classical recording, assuming that bountiful technology will bring forth a better replacement. The trouble is, it probably won't. The best the internet has to offer is downloads of live concerts and archival material, for which the DG- Decca group boasts a 1,000 per cent increase in 2006. It is true that classical consumers are switching to iTunes, orchestral websites and broadcasters like the BBC and Finland's YLE for their classical fix, whether free or paid-for. But none of these remedies comes close to replacing the record. The iTunes bit rate is less than one tenth that of a classical CD-128 kbps (kilobits per second) to 1,441 kbps- and even high-tech downloads from Decca and DG are more than twenty per cent below CD standard. You don't need a conductor's ears to detect the degradation.

- 102 Which of the following statements best expresses the topic of the first paragraph?
- (A) In the earlier twentieth century, music records were expensive.
 - (B) It was close to the time of the First World War that the recording of symphonies on discs began.
 - (C) The credit for introducing music records goes to Arthur Nikisch.
 - (D) The first symphony that was recorded was that of Beethoven.
- 103 Which of the given statements is false?
- (A) In 1914, the reception accorded to the music discs was not as enthusiastic as expected.
 - (B) Eduard Hanslick was a concert reviewer.
 - (C) The release of the music disc was an important landmark in the history of music.
 - (D) David Friedrich's painting of the lonely mountaineer overshadowed the creativity of Beethoven's 5th.
- 104 Choose the alternative that best completes the given statement.
An accurate evaluation of music was not possible because
- (A) The judgement of the critics was subjective.
 - (B) Critics had to depend on numerous performances.
 - (C) Critics found variations in each performance of the artists.
 - (D) Critics did not have music that was preserved for analysis.

- 105 According to the passage, which one of the consequences of the given statement is true?
Consequent upon the conductors committing their work to the recorded media
- (A) Knowledgeable discussion on Vivaldi's and Beethoven's music through magazines became common.
 - (B) Arguments about different sections of music were seldom heard.
 - (C) Critical opinions were worn on shirt sleeves for others to see.
 - (D) Literalists and contextualists never saw eye to eye.
- 106 Pick out the statement that is true.
- (A) Classical music lost its appeal because of the internet.
 - (B) Stake-holders in the market preferred pop music.
 - (C) A large number of youth preferred pop music to classical music.
 - (D) 'Turn overs' and 'bottom lines' became the new 'mantras' and the axe fell on classical music.
- 107 Choose the alternative that is closest in meaning to the words 'music ceased to be ethereal...'
- (A) Music was no longer transmitted through the radio.
 - (B) Music was not just played but also written down.
 - (C) Listening to music was not confined to live concerts.
 - (D) There was a decline in the number of live music performances.
- 108 Which of the statements is true?
The descriptions of the facial features of Helen in Classical Greek were ...
- (A) poetic and hence probably inaccurate
 - (B) arbitrary reconstructions of her physiognomy
 - (C) based on stories passed on by elders
 - (D) about trivial aspects like how her nose turned
- 109 Which of the given statements best conveys the idea contained in the last paragraph?
- (A) The quality of music on CD's is better than that of downloads from the internet.
 - (B) New technology always offers something better.
 - (C) The bit rate of i-Tunes is not as fast as that of CD's and hence the music seems better.
 - (D) The internet has made it possible to listen to music free of cost.

Read the poem given below and answer questions 110 to 115

DRAUPADI

Stanza 1

1. Once more
2. stripped to the raw nerves
3. the bones vibrating cold,
4. Draupadi is bared in books
5. papers, case-studies,
6. written about, explained, clinically justified
7. peeled of mythical euphemism
8. that covered her physiognomy, anatomy, her psyche,
9. discussed till she is wrung out dry -
10. a subject.

Stanza 2

11. Eased of the weight
12. of an anachronistic civilization
13. which once bent her double,
14. She has now straightened up to stand easy,
15. looks clear as sheer glass
16. through which you see everything.
17. The global features on her face
18. launched a thousand UN meetings
19. and a conference at Copenhagen.
20. The garments She is now offered
21. to wrap herself for warmth
22. are resolutions on thin paper.
23. The pain was more tangible years ago
24. when She was a mere palpitating organism
25. beaten and kicked about.
26. The swollen blue and purple bruises
27. on her body
28. won her quick, straight sympathy
29. Not beaten anymore
30. Draupadi stands bare of bruises
31. her heart arrested at a still point in history.

Stanza 3

32. She has done it.
33. Has offended the supreme male
34. into a sullen silence
35. by her terrible nakedness.

- 110 In the given poem, 'Draupadi' refers to
(A) an old-fashioned woman (B) a subject of seminars
(C) a symbol of womanhood (D) a person known to the poet
- 111 What do the lines 20 to 22 ('The garments...thin paper') mean?
(A) The woman was given a garment made of paper.
(B) The protection offered to the woman is an eye-wash.
(C) The woman is offered legal protection.
(D) The modern woman has a variety of garments to keep herself warm.
- 112 Pick out a suitable synonym for the underlined word in line 23 ('tangible')
(A) terrible (B) palpable (C) tolerable (D) palatable
- 113 Which expression in Stanza 2 conveys the following meaning?
'The woman has begun to assert herself'.
(A) eased of the weight of an anachronistic civilisation
(B) looks clear as sheer glass
(C) straightened up to stand easy
(D) launched a thousand UN meetings
- 114 The expression 'stripped to the raw nerves' means that:
Draupadi has been...
(A) physically stripped again
(B) forced to suffer torment
(C) made the subject of academic scrutiny
(D) held as an example of frailty
- 115 Which of the given alternatives best expresses the idea contained in the last stanza of the poem?
'She' has
(A) insulted Man
(B) accepted her lot in life
(C) chosen to ignore Man
(D) refused to be cowed down by Man
- 116 A ship starts its journey from a port (Port 1) in the Andaman and Nicobar Islands and heads due South first for 100 kms and then due East for 100 kms to reach another port (Port 2). Then, it proceeds due North 100 kms. and finally, due West 100 kms. The ship would have reached
(A) Port 1 (B) a spot that is East of Port 1
(C) a spot that is West of Port 1 (D) a spot that is South of Port 1

- 117 A sheet of paper is folded many times. Each time a fold is made, the paper is divided into two halves and a crease is made in between. If the paper is further folded over and over 10 times, the paper will get divided into
- (A) 20 parts (B) 256 parts
(C) more than 1000 parts (D) a little more than 500 parts

Q.118-120 are based on the following:

Percentage of sales of Biscuits India Limited (BIL) by flavour/variety

| Flavour/Variety | Year 2006 | Year 2007 |
|-----------------|-----------|-----------|
| Milk Biscuits | 9 | 10 |
| Glucose | 45 | 45 |
| Marie | 25 | 26 |
| Chocolate | 15 | 16 |
| Salt Biscuits | 6 | 3 |

The sales of BIL in 2006 is Rs. 1100 crore. From 2006 to 2007, the sales grew by 15%.

- 118 The type of biscuits that has shown the greatest percentage increase in sales is
(A) Milk Biscuits (B) Marie (C) Chocolate (D) Glucose
- 119 The sales of chocolate flavour in 2007 is approximately (in crores of rupees)
(A) 191 (B) 200 (C) 250 (D) 100
- 120 Which of the following statements (about sales in Rupees) is not true?
(A) The sales of Salt Biscuits declined from 2006-2007.
(B) The sales of Marie increased from 2006-2007.
(C) Sales of Milk Biscuits in 2007 is greater than in 2006.
(D) Sales of Glucose is unchanged over one year.
- 121 The value of the expression $1-7+2-6+3-9+4-8$ to 100 terms is
(A) -250 (B) -300 (C) -450 (D) -500
- 122 Find the odd one out among: ACD, BDF, CFI, DHL, EJO
(A) BDF (B) DHL (C) ACD (D) EJO
- 123 A tank that was initially empty, receives a continuous supply of water at a constant rate of 200 litres per hour. There is a leak through a small hole at the bottom of the tank that lets 5 drops a second. Each drop is equivalent in volume to a cube of side 1mm. The tank overflows in 2 days' time. The capacity of the tank is
(A) about 9,500 litres (B) a little over 10,000 litres
(C) less than 8,000 litres (D) about 8,500 litres

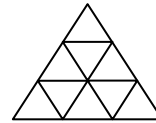
124 Two adjacent rooms each with 3 metres \times 3 metres floor area and height 3 metres have to be white washed. There is a separate window and a door for each room. In addition, there is a door on the wall that is common to the two rooms. The area of each window and door can be taken to be 2 square metres. Then the total area of the walls and ceiling to be white washed can be estimated to be
 (A) 78 sq.m (B) 80 sq.m (C) 84 sq.m (D) 90 sq.m

125 If “house” is coded as 17, “homes” is coded as
 (A) 15 (B) 17 (C) 20 (D) 22

126 If the code word for ABRACADABRA is BSCB BEBD BSC
 What is the code word for PUZZLED?
 (A) QAVA MFE (B) AAVQ EFM (C) QVAA MFE (D) YYTO CDK

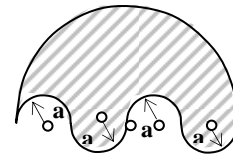
127 Among the following objects which one is different from the others?
 Flask, Ceiling Fan, Refrigerator, Computer, Television
 (A) Ceiling Fan (B) Computer (C) Television (D) Flask

128 How many triangles are there in the figure?



(A) 11 (B) 13 (C) 15 (D) 18

129 What is the area of the shaded region?



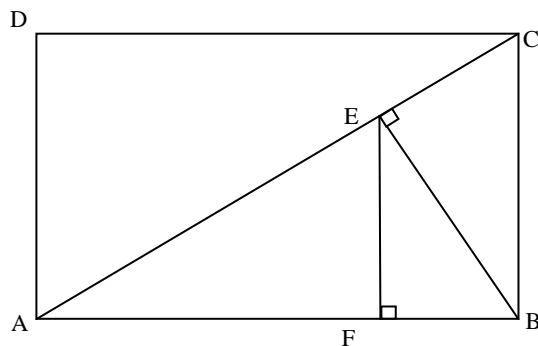
(A) $2\pi a^2$ (B) $2.5\pi a^2$ (C) $3.5\pi a^2$ (D) $4\pi a^2$

130 You are waiting in a long line to get tickets for a movie. Just to get an idea, you count the people ahead of you. You find that you are the 38th in the line. Then you look behind and find that you are the 56th from the end. Later, when 3 people have finished buying the tickets in the front, 2 people in front of you leave and 3 people join at the back. How many people are currently in the line?
 (A) 85 (B) 90 (C) 91 (D) 93

131 Raman’s peacock jumps over the fence into Lakshman’s compound and lays an egg there. Who does the egg belong to?
 (A) Raman (B) Lakshman
 (C) Peacock (D) The statement itself is not true

- 132 Clock WWW gains half a minute everyday; Clock XXX gains 2 minutes everyday; Clock YYY loses a minute a day and clock ZZZ doesn't work at all! Which one of the clocks is likely to show correct time more often?
 (A) Clock WWW (B) Clock XXX
 (C) Clock YYY (D) Clock ZZZ
- 133 "A person was 18 years old the day before yesterday and in the next year he will complete 21 years!"
 When do you think the above statement could possibly be true?
 (A) December 30th (B) December 31st
 (C) January 1st (D) January 2nd
- 134 An angle of a triangle at a vertex measures 15 degrees. The vertex is now observed over a magnifying glass that magnifies twice. What is the angle when observed over this magnifying glass?
 (A) 7.5 degrees (B) 15 degrees (C) 17 degrees (D) 30 degrees
- 135 A man takes 5 minutes and 13 seconds to walk every full lap of a looping road. How long will he take to do 60 laps if he maintains his average speed?
 (A) 323 seconds (B) 5 hours 13 minutes
 (C) 403 seconds (D) 5 hours 6 minutes 18 seconds
- 136 If $\cos\theta = 0.2$, then $\cos(4\theta)$ can be approximated by
 (A) 0.3274 (B) 0.6928 (C) 0.7912 (D) 1.2342

- 137 In the rectangle ABCD shown, a line is drawn through B that is perpendicular to the diagonal AC passing through E. Another line is drawn perpendicular to AB through E. The line intersects AB at F. The sides of the rectangle AD and DC measure 3 cm and 4 cm respectively. What is the length of line segment EF?



- (A) 0.72 cms (B) 0.9 cms (C) 1.44 cms (D) 1.92 cms

Q. 138 and 139 are based on the following:

In the square shown, the numbers in each of the rows, columns or diagonals add up to the same number (in the square shown, it adds up to 15). In addition, the square contains consecutive numbers 1 to 9. Such a square is called a **magic square**.

| | | |
|---|---|---|
| 2 | 7 | 6 |
| 9 | 5 | 1 |
| 4 | 3 | 8 |

- 138 If one were to create a similar square that should add up to 33 using the shown magic square as a template, one way of creating it is to find the numbers in the new square using the formula, (assume each number in the square shown to be x)
 (A) $2x+3$ (B) $x+4$ (C) $2x+1$ (D) $3x-2$

- 139 If one were to create another similar square using consecutive odd numbers, then each of the row, column and diagonal will add up to
- (A) A number that is divisible by 3 and is odd
 - (B) A number that is divisible by 3 and is even
 - (C) A number that is less than 27
 - (D) A number that is divisible by 3 and could be odd or even.

Q.140-142 are based on the following:

T is married to R. They have 8 children, B, A, J, I, K, S, V and N.

Only one, K or N is female.

The youngest is not a female.

B is older than A.

A is male.

J is male.

J is younger than B.

N is the youngest.

I is female.

V is female.

Only one, A or S is a female.

The oldest sibling is not a female.

- 140 The oldest sibling is

(A) A (B) B (C) I (D) S

- 141 The number of males is

(A) 1 (B) 2 (C) 4 (D) 6

- 142 The number of females is

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

- 143 A mother is three times as old as her daughter. After twenty years, she will be twice as old as her daughter. Her daughter's husband (son-in-law) is five years older than her daughter. The age of her son-in-law five years from now is

(A) 25 years (B) 30 years (C) 35 years (D) 40 years

- 144 If $1/x = 3.5$, $[1/(x+2)] \times [1/(x+1)]$ is closest to

(A) 0.34 (B) 0.4 (C) 0.44 (D) 0.5

- 145 From a circular sheet of paper with a radius of 20 cms, four circles of radius 5 cms each are cut out. The area of the remaining paper that is uncut is

(A) 1.5π (B) 2.5π (C) 100π (D) 300π

- 146 The equal sides of an isosceles triangle are 5 cms each. The length of the third side could be

(A) 7 cms (B) 10 cms (C) 11 cms (D) 12 cms

- 156 Tamil Nadu (TN) Express started from Chennai at 10 pm. Grand Trunk (GT) Express departed Chennai two hours later. GT Express overtook TN Express in 6 hours time. The sum of their average speeds is 70 kmph. The average speed of TN Express is
 (A) 20 kmph (B) 30 kmph (C) 40 kmph (D) 50 kmph
- 157 The intercept of the line $2x - 5y = 10$ on the x-axis is
 (A) 0 (B) 4 (C) 5 (D) 6
- 158 A school has 378 girls and 675 boys. The school is divided into exclusively boys' or girls' sections with the same number of students. The number of sections in the school is
 (A) 12 (B) 25 (C) 39 (D) 43

Q.159-160 are based on the following:

At IIT Madras, students can get any of the following grades: S, A, B, C, D or E. In a class of twelve students,

| | |
|-------------------|----------------------------|
| Lavanya got an S. | There were no D's and E's. |
| There were 5 C's. | |
| Meghna got an A. | |
| Priya got an A. | |
| | Phillis got a C. |
| | Keerthy got an S. |

- 159 The maximum number of A's is
 (A) 1 (B) 2 (C) 3 (D) 5
- 160 The minimum number of B's is
 (A) 0 (B) 1 (C) 2 (D) 4
- 161 Carbon credits are a key component of emission trading schemes that provide a way to cap or limit emissions of carbon by:
 (A) assigning a market value to any shortfall of emissions that can be compensated by trading.
 (B) offering trade subsidies to countries that emit lesser amounts than their permitted levels.
 (C) imposing trade sanctions on countries when they emit more than their permitted levels.
 (D) establishing an international authority to provide soft loans to countries that emit lesser amounts than their permitted levels.
- 162 Identify the odd one among the following major disasters.
 (A) Chernobyl. (B) Minamata. (C) Bhopal. (D) Katrina.
- 163 The growth of nitrogen-fixing *Rhizobium* bacteria on the root nodules of legume plants is an example of:
 (A) Parasitism. (B) Mutualism.
 (C) Commensalism. (D) Predator-prey interaction.

- 164 An ecological 'hotspot' is a region:
 (A) with maximum species diversity.
 (B) having the maximum population of an endangered species.
 (C) that has lost more than 70% of its original habitat.
 (D) that has experienced a temperature rise that threatens its endangered species.
- 165 Which one of the following is the largest source of freshwater on earth?
 (A) Rivers. (B) Lakes. (C) Ice caps and (D) Groundwater.
 Glaciers.
- 166 In the context of pollution, what are PCBs most commonly referred to as?
 (A) Poly Chlorinated Biphenyls. (B) Printed Circuit Boards.
 (C) Pesticide Carrying Bacteria. (D) Pollution Control Boards.
- 167 The fertility rate, defined as *the average number of children that women have during their lifetimes*, required to maintain a stable population is:
 (A) 0.1 (B) 1.1 (C) 2.1 (D) 3.1
- 168 Which of the following natural hazards is most directly influenced by human activities?
 (A) Earthquakes. (B) Landslides. (C) Cyclones. (D) Floods.
- 169 Which of the following options specifies the correct order of food items in terms of dietary importance in the Food Pyramid?
 (A) Cereals > Vegetables > Meat > Chocolates.
 (B) Vegetables > Meat > Rice > Colas.
 (C) Eggs > Bread > Ice cream > Fruits.
 (D) Milk > Sweets > Fruits > Wheat.
- 170 In the context of ecosystems, match the terms from each of the following three columns:
 (a) Marine. (p) Mangroves. (w) Great Barrier Reef.
 (b) Freshwater. (q) Rainforest. (x) Sunderbans.
 (c) Tropical. (r) Corals. (y) Everglades.
 (d) Estuarine. (s) Marshes. (z) Western Ghats.
 (A) (a, p, x); (b, q, z); (c, s, x); and (d, r, w).
 (B) (a, r, w); (b, s, y); (c, q, z); and (d, p, x).
 (C) (a, r, w); (b, q, z); (c, p, x); and (d, s, y).
 (D) (a, p, x); (b, r, w); (c, q, z); and (d, s, y).

171 Identify the persons in the two photographs. Each has won prestigious international awards for their dedication to environmental causes.



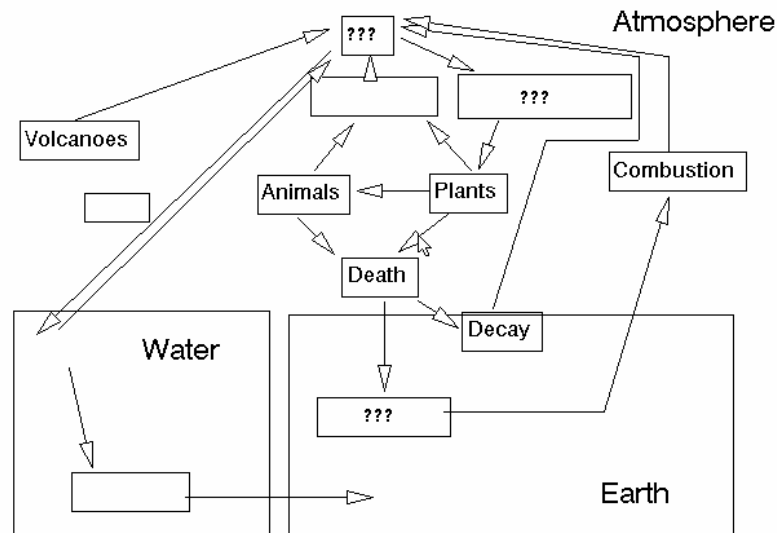
- (i) (A) Sunderlal Bahuguna. (ii) Medha Patkar.
 (B) Rajendra Singh. (ii) Suman Sahai.
 (C) Anil Aggarwal. (ii) Sunita Narain.
 (D) R. K. Pachauri. (ii) Vandana Shiva.

172 Which of the following is NOT a greenhouse gas?
 (A) CO₂ (B) CH₄ (C) H₂O vapour (D) N₂

173 In comparison with the total atmospheric CO₂, the total amount of dissolved CO₂ in the oceans is:
 (A) Negligible. (B) Approximately the same.
 (C) Approximately twice. (D) Approximately 50 times.

174 In a stable ecosystem, the assimilation efficiency (defined as the ratio of assimilation to ingestion of food) in a food chain
 (A) remains constant for all the trophic levels of the chain.
 (B) decreases with increasing trophic levels.
 (C) increases with increasing trophic levels.
 (D) is higher for herbivores as compared to carnivores.

Q. 175 and 176 are based the figure shown.



- 175 Identify the natural cycle in the figure:
(A) Water cycle. (B) Energy cycle.
(C) Carbon cycle. (D) Nitrogen cycle.
- 176 Identify the correct terms for placing in the boxes marked with ‘???’ in the figure.
(A) Nitrogen, Fixation, Legumes
(B) Water Vapour, Evaporation, Lakes and Rivers
(C) Heat, Radiation, Crust
(D) CO₂, Photosynthesis, Fossil Fuels
- 177 Which of the following renewable energy resources is currently associated with the least carbon footprint across their respective lifecycles, for equivalent energy production?
(A) Biomass (B) Wind (C) Wave, Tidal (D) Solar PV
- 178 Which of the following components that is ubiquitously present in biomass makes it potentially a significant and cheap source for ethanol production?
(A) Triglycerides. (B) Proteins. (C) Cellulose. (D) Lignin.
- 179 Which of the following energy conversion technologies is NOT based on the conversion of mechanical energy to electrical energy?
(A) Windmills. (B) Tidal/Wave power. (C) Hydroelectric power. (D) Electric engines.
- 180 Which of the following is the correct arrangement of countries in decreasing order of population density (total population/total area)?
(A) Netherlands > China > USA > Canada.
(B) India > China > Brazil > Malta.
(C) United Kingdom > France > Germany > Australia.
(D) Bangladesh > Japan > Nigeria > Trinidad and Tobago