PANDIT DEENDAYAL PETROLEUM UNIVERSITY

Raisan, Gandhinagar - 382 007, Gujarat, India. Phone: 079-23275210/11/12 Fax: 079-23275030

www.pdpu.ac.in

School Of Liberal Studies

ADMISSION 2010

• QUESTION PAPER

TIME	: 90 MINUTES
NUMBER OF QUESTIONS	: 120
SECTIONS	: 4

Please open the Question Paper only when you are instructed to do so.

Please note that for each Wrong Answer 0.25 marks will be deducted.

Rough work may be done in the margin.

Answer Sheet is provided separately.

Please use HB Pencil to blacken your choice of answer.

The Question Paper has to be returned with the Answer Sheet attached.

EACH SECTION CARRIES 30 QUESTIONS

SECTION - 1	ENGLISH
SECTION - 2	QUANTITATIVE APTITUDE
SECTION - 3	LOGICAL REASONING
SECTION - 4	GENERAL KNOWLEDGE

SECTION - 1

ENGLISH

IN THE FOLLOWING QUESTIONS, FOUR ALTERNATIVES ARE GIVEN FOR THE WORD IN ITALICS IN THE SENTENCE. CHOOSE THE ONE WHICH BEST EXPRESSES THE MEANING OF THE WORD IN ITALICS.

1.   That lady has been an *elusive* customer.

    A. Trustworthy   **B.** Unpredictable   **C.** Argumentative   **D.** Rich

2.   (B) As a student, his academic performance has been *average*.

    A. Outstanding   **B.** Surprising   **C.** Mediocre   **D.** Volatile

3.   (C) To *understand* this question, you should think for a few minutes.

    A. Comprehend   **B.** Attempt   **C.** Omit   **D.** Speak

4.   In spite of my arguments, still she showed *disagreement*.

    A. Descent   **B.** Dissent   **C.** Distance   **D.** Disturbance

5.   A true liberal study student believes in the *welfare of fellow-men*.

    A. Alternative   **B.** Anthropology   **C.** Agnostic   **D.** Altruism

FIND OUT AN OPPOSITE WORD FOR AN UNDERLINED WORD FROM THE GIVEN OPTION.

6.   (1) The new boss is known for his **rigid** approach to all problems.

    A. Swift   **B.** Sympathetic   **C.** Flexible   **D.** Logical

7.   **Adversity** is the source of many vices

    A. Prosperity   **B.** Variety   **C.** Vanity   **D.** Unity

8.   His **repulsive** behavior makes him unpopular everywhere.

    A. Constructive   **B.** Obstructive   **C.** Attractive   **D.** Conclusive

9.   **Casual** remarks made by her created conflict in the meeting.

    A. Careful   **B.** Flawless   **C.** Wonderful   **D.** Sincere

17. I know it is not nice to compromise but
    If placed in his situation - P   you can hardly blame him - Q
    for doing what - R   most people would do - S

    A. QRPS   **B.** QRSP   **C.** SPRQ   **D.** SPQR

18. It is a rule
    by anyone and admits - P   that must not - Q
    of no variation - R   be violated - S

    A. QSPR   **B.** RQPS   **C.** PSQR   **D.** QPRS

19. He reached his office at 10:00 a.m. and
    no sooner - P   than there was a huge explosion - Q
    Had he got out of the car - R   and it went in flames - S

    A. PQRS   **B.** RPQS   **C.** RPSQ   **D.** PRQS

20. The exhibition committee
    attractive and useful - P   to make the exhibition - Q
    making efforts - R   has been - S

    A. SRQP   **B.** QPRS   **C.** SQRP   **D.** PRQS

READ THE FOLLOWING PASSAGE CAREFULLY AND ANSWER THE QUESTIONS GIVEN BELOW.

A major Indian success has been scored in the strengthening of Indian unity politically, economically and emotionally and the pushing forward of the complex process of nation-in-the-making. India's immense diversity has not hampered the process, even while this diversity has been sustained and has, in fact, flowered. Also, tensions generated by immense social churning have not come in the way of further developing the sense and sentiment of Indianness, of Indians being one people. There have, of course, been several challenges to Indian unity but they have mostly been overcome. The solution of the diverse official language issue, reorganization of linguistic states, refusal to counterpoise regional and cultural identities to an Indian identity, sympathetic handling of the problems of the tribals and their integration into the national mainstream, firm treatment of separatist movements even when showing an understanding of the feelings underlying them, genuine efforts, even when not very successful, to reduce regional inequality, have gone a long way in ensuring that Indian unity is no longer fragile and that the existence of India as a viable and assured political entity is under little threat. Disparities between states still remain, but they do not threaten Indian unity, for they are often caused by infirmities internal to a state and are not the result of internal colonialism or sub-colonialism where a backward region is subjected to economic subordination and exploitation by another more advanced region or by the rest of the country. A large number of regional or one-state parties have come into existence over the years. They have freely assumed power in the states and have even shared power at Centre by allying with one or

the other national party or becoming part of an alliance on an all-India basis. These parties fight for greater access to central resources and not for their own separate and fuller control over the region's resources for they already enjoy that.

(From *India Since Independence,* Bipin Chandra, Mridula Mukherjee & Aditya Mukherjee, Penguin Books, India, 2000)

21. The major success of India, mentioned in the passage is

   A. Social churning   **B.** Handling problems of tribals
   C. Strong national unity   **D.** Reduction of regional inequality

22. Find out a synonym for multiplicity from the passage -

   A. Disparity   **B.** Diversity   **C.** Entity   **D.** Unity

23. What is 'indianness' as indicated in the passage?

   A. Indians being one people.   **B.** Reorganizing linguistic states.
   C. Singing national anthem.   **D.** Controlling national resources.

24. What is the opinion of writers?

   A. The road to national unity has been without challenges.
   B. There are serious threats for national unity.
   C. Challenges to national unity have been more or less overcome.
   D. None of the above.

25. Separatist movements have been handled.

   A. Firmly without any feelings   **B.** Mildly
   C. Firmly with emotional understanding   **D.** Sympathetically

26. What is an antonym of 'strong' which is mentioned in the passage?

   A. Fragile   **B.** Official   **C.** Complex   **D.** Intricate

27. Regional parties enjoy power at the Centre by

   A. Getting clear majority nation-wide.   **B.** Allying with a National party.
   C. Effectively launching electoral campaign.   **D.** Fighting the elections alone.

28. What is internal colonialism?

    A. Exploitation of the under-privileged region by a prosperous region in the country itself
    B. British-raj
    C. Establishing colonies
    D. Sharing of power

29. What is the mood of the writers?

    A. They are confident of national unity   B. They do not want to predict future condition
    C. They are concerned about national unity   D. None of the above

30. Regional parties strive for

    A. Regional resources   B. Central resources
    C. Natural resources   D. Human resources

SECTION - 2

QUANTITATIVE APTITUDE

1. If one-seventh of a number exceeds its eleventh part by 100 then the number is…

   A. 770   B. 1100   C. 1825   D. 1925

2. Monika can do a piece of work in 30 days. She worked at it for 10 days. The remaining work was finished by Rahul in 24 days. Had they worked together, how many days would it have taken to finish the work?

   A. 14.5   B. 15.4   C. 16.3   D. 17.2

3. A train 120 metres long passes an electric pole in 12 seconds and another train of same length traveling in opposite direction in 8 seconds. The speed of the second train is

   A. 60 Km   B. 66 Km   C. 72 Km   D. 80 Km

4. If the true discount on a sum due 2 years hence at 14% per annum be Rs. 168, the sum due is:

   A. Rs. 768   B. Rs. 968   C. Rs. 1960   D. Rs. 2400

5. If a quarter kg of potato costs 60 paise, how many paise will 200 gm cost?

   A. 48 paise   B. 54 paise   C. 56 paise   D. 72 paise

6. The average of 5, 10, 15, and x is 20. What is x?

   A. 0   B. 20   C. 40   D. 45

7. $7.95 \div 1.5$

   A. 2.4   B. 5.3   C. 6.2   D. 7.3

8. If $a - b = 3$ and $a^2 + b^2 = 29$, find the value of ab.

   A. 10   B. 12   C. 15   D. 18

9. $-32 + 7$ equals:

   A. -25   B. 25   C. -26   D. 26

10. What decimal of an hour is a second ?

    A. 0.0025   B. 0.0256   C. 0.00027   D. 0.000126

11. What percent of 90 is 27?

    A. 15%   **B.** 20%   **C.** 30%   **D.** 33%

12. Which of the following correctly identifies 4 consecutive odd integers where the sum of the middle two integers is equal to 24?

    A. 5, 7, 9, 11   **B.** 7, 9, 11, 13   **C.** 9, 11, 13, 15   **D.** 11, 13, 15, 17

13. What is the next number in the sequence? 6, 12, 24, 48, ___

    A. 72   **B.** 96   **C.** 108   **D.** 112

14. What is the probability that a two digit number selected at random will be a multiple of '3' and not a multiple of '5'?

    A. 2 / 15   **B.** 4 / 15   **C.** 1 / 15   **D.** 4 / 90

15. A can give B a start of 50 metres or 10 seconds in a kilometer race. How long does A take to complete the race?

    A. 200 seconds   **B.** 140 seconds   **C.** 220 seconds   **D.** 190 seconds

16. Find the greatest number of five digits, which is exactly divisible by 7, 10, 15, 21 and 28.

    A. 99840   **B.** 99900   **C.** 99960   **D.** 99990

17. In the figure below, what is the value of a?
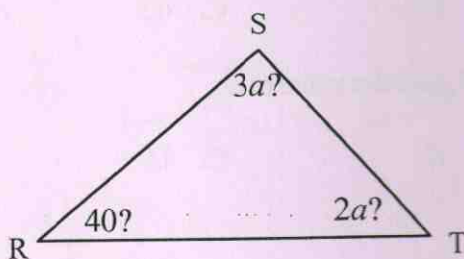
    A. 10   **B.** 20   **C.** 28   **D.** 36

18. In the figure below, what is the value of $a + b + c$?
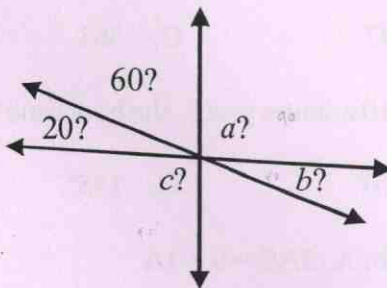
    A. 210   **B.** 220   **C.** 240   **D.** 270

19. Trader makes a profit equal to the selling price of 75 articles when he sold 100 of the articles. What % profit did he make in the transaction?

    A. 33.33%   **B.** 75%   **C.** 300%   **D.** 150%

20. If $a - b = 1$, $b - c = 2$, and $c - a = d$, what is the value of d?

    A. -3   **B.** -1   **C.** 1   **D.** 3

21. 252 can be expressed as a product of primes as:

    A. 2 x 2 x 3 x 3 x 7 **B.** 2 x 2 x 2 x 3 x 7 **C.** 3 x 3 x 3 x 3 x 7 **D.** 2 x 3 x 3 x 3 x 7

22. 45% of 500 equals

    A. 210   **B.** 250   **C.** 220   **D.** 225

23. The salaries A, B, C are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?

    A. 3 : 3 : 10   **B.** 10 : 11 : 20
    C. 23 : 33 : 60   **D.** Cannot be determined

24. Find the odd one out... 6, 9, 15, 21, 24, 28, 30

    A. 28   **B.** 21   **C.** 24   **D.** 30

25. Find the missing number... 5, 10, 13, 26, 29, 58, 61, (....)

    A. 122   **B.** 64   **C.** 125   **D.** 128

26. The square root of 64009 is:

   A. 253　　　　　B. 347　　　　　C. 363　　　　　D. 803

27. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:

   A. 145°　　　　　B. 150°　　　　　C. 155°　　　　　D. 160°

28. Solve the following equation for A : 2A/3 = 8 + 4A

   A. -2.4　　　　　B. 2.4　　　　　C. 1.3　　　　　D. -1.3

29. What is 1230.932567 rounded to the nearest hundredths place?

   A. 1200　　　　　B. 1230.9326　　　　　C. 1230.93　　　　　D. 1230

30. Arun, Kamal and Vinay invested Rs. 8000, Rs. 4000 and Rs. 8000 respectively in a business. Arun left after six months. If after eight months, there was a gain of Rs. 4005, then what will be the share of Kamal?

   A. Rs. 890　　　　　B. Rs. 1335　　　　　C. Rs. 1602　　　　　D. Rs. 1780

SECTION - 3

LOGICAL REASONING

FOR QUESTION NUMBER 1 TO 7. IN EACH OF THE FOLLOWING QUESTIONS, FOUR WORDS HAVE BEEN GIVEN OUT OF WHICH THREE ARE ALIKE IN SOME MANNER, WHILE THE FOURTH ONE IS DIFFERENT. CHOOSE OUT THE ODD ONE..

1. **A.** Curd   **B.** Butter   **C.** Oil   **D.** Cheese

2. **A.** Kanpur   **B.** Allahabad   **C.** Varanasi   **D.** Chandigarh

3. **A.** Geometry   **B.** Algebra   **C.** Trigonometry   **D.** Mathematics

4. **A.** Tomato   **B.** Cucumber   **C.** Brinjal   **D.** Carrot

5. **A.** Copper   **B.** Zinc   **C.** Brass   **D.** Aluminum

6. **A.** January   **B.** May   **C.** November   **D.** July

7. **A.** Haryana   **B.** Jharkhand   **C.** Chhattisgarh   **D.** Andhra Pradesh

8. In certain code, TEACHER is written as VGCEJGT. How is CHILDREN written in that code?

    A. EJKNEGTP   **B.** EGKNFITP   **C.** EJKNFGTO   **D.** EJKNFTGP

9. Tennis is related to Court in the same way as Boxing is related to ......?......

    A. Pool   **B.** Ring   **C.** Arena   **D.** Course

10. Soap is related to wash in the same way as Broom is related to .....?.....

    A. Clean   **B.** Dust   **C.** Sweep   **D.** Floor

11. What number should replace the question mark?
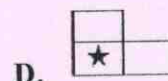
6	14	5	4
8	4	2	6
9	16	5	5
7	7	2	7
4	4	1	?

    A. 8   **B.** 16   **C.** 1   **D.** 7

12.

What comes next?

    A.   **B.**   **C.**   **D.**

13. Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday
Which day comes immediately after the day which comes three days before the day which comes
immediately after the day which comes three days before Friday?

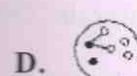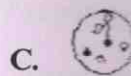   A. Tuesday   B. Wednesday   C. Monday   D. Saturday

14. ED, GE, OW, EN, UE, GO,?
Which two letters complete the above sequence?

   A. ET   B. AN   C. VE   D. CH

15. 3664 : 68
    2581 : 59
    1649: ?

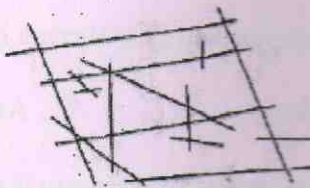   A. 47   B. 74   C. 56   D. 94

16. Which is the odd one out?

   A.   B.   C.   D.

17. How many lines appear below?

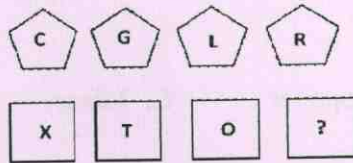   A. 13   B. 15   C. 14   D. 20

18. JANUARY
    FEBRUARY
    APRIL
    JULY
    NOVEMBER
    APRIL
    OCTOBER
    ?
    Which month comes next?

   A. June   B. December   C. May   D. July

19. What letter should replace the question mark?

   A. I   **B.** J   **C.** H   **D.** K

20. Write down the figure for thirteen thousand, thirteen hundred and thirteen.

   A. 1313013   **B.** 131313   **C.** 133113   **D.** 131303

21. Simplify 6-7×3+8÷2 =

   A. 71   **B.** 3.5   **C.** -10   **D.** -11

22. Divide 56 by a quarter and add 7. How many have you got?

   A. 21   **B.** 224   **C.** 132   **D.** 231

23. Which is the odd one out?
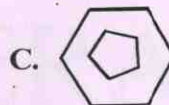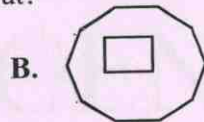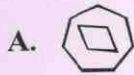
FROM QUESTION 24 TO 30, COMPLETE THE ANALOGY

24. Giant : Dwarf :: Genius : ?

   A. Wicked   **B.** Gentle   **C.** Idiot   **D.** Tiny

25. Newspaper: Press :: Cloth : ?

   A. Tailor   **B.** Textile   **C.** Fibre   **D.** Mill

26. Acting : Theatre :: Gambling : ?

   A. Casino   **B.** Club   **C.** Bar   **D.** Gymn

27. Mumbai : Maharashtra :: Trivandrum : ?

   A. Kolkata   **B.** Gujarat   **C.** Kerala   **D.** Sikkim

28. Menu : Food : : Catalogue : ?

    A. Rack   **B.** Newspaper   **C.** Library   **D.** Books

29. Mango : Fruit : : Potato : ?

    A. Root   **B.** Fruit   **C.** Stem   **D.** Flower

30. Smoke : Pollution : : War : ?

    A. Destruction   **B.** Treaty   **C.** Victory   **D.** Peace

SECTION - 4

GENERAL KNOWLEDGE

1. Whose signature is found on one rupee note in India ?

    A. Governor, Reserve Bank of India
    B. Finance Secretary, Ministry of Finance Government of India
    C. Finance Minister, Govt. of India
    D. President of India

2. Which film bagged the Best Film of the 10th International Indian Film Academy Awards distributed in June 2009 ?

    A. Tare Zameen Par   B. Jodha Akbar   C. Gazani   D. Akasa Kusum

3. Name of India's indigenously developed Light Combat Aircraft is :

    A. Power   B. Rudra   C. Kranti   D. Tejas

4. Which planet is in the outer most orbit of the solar system ?

    A. Saturn   B. Jupiter   C. Venus   D. Pluto

5. Which of the following is the capital of Lakshdweep ?

    A. Kavaratti   B. Aizwal   C. Port Blair   D. Silvassa

6. The 29th Olympic Games were played in August 2008 in Beijing. Where will the 30th Olympic games be played in 2012 ?

    A. Osaka   B. Toronto   C. London   D. Istanbul

7. A fuse wire is used in an electric circuit to :

    A. Minimise loss of electrical energy in transmission
    B. Maintain constant voltage level
    C. Prevent excessive current from passing through the circuit
    D. Prevent heating of electric wire

8. Who won the Femina Miss India world title for 2010 ?

    A. Neha Kapoor   B. Manasvi Mamgai   C. Amrita Pal   D. Nicole Faria

9. On which day is World Environment Day celebrated

    A. June 5   B. July 15   C. May 4   D. June 1

10. In which city did a major air disaster of Air India take place recently?

    A. Mangalore   B. Bangalore   C. Chennai   D. Delhi

11. The southern most tip of India is :

    A. Lakshadweep   **B.** Kanyakumari
    C. Indira Point   **D.** Rameshwaram

12. In which city is the country's largest stadium located?

    A. Kolkata   **B.** Delhi   **C.** Patiala   **D.** Chandigarh

13. In which city is the country's largest prison located?

    A. Lucknow   **B.** Kolkata   **C.** Kanpur   **D.** Delhi

14. Which is the largest orange-growing state?

    A. Maharashtra   **B.** Punjab   **C.** Orissa   **D.** Madhya Pradesh

15. Name the first Indian soap opera which was telecast from July 1984 to December 1985.

    A. Hum Log   **B.** Buniyad   **C.** Rajani   **D.** Khaandan

16. In which state is the longest canal located?

    A. Rajasthan   **B.** Gujarat   **C.** Punjab   **D.** Haryana

17. In which city was the first milk powder plant set up?

    A. Anand   **B.** Delhi   **C.** Chandigarh   **D.** Patiala

18. 'The mountain range which forms the Western boundary of the Indian sub-continent is called :

    A. Aravali   **B.** Satpura   **C.** Pirpanjal   **D.** Hindukush

19. Vitamin 'A' is necessary in our body for :

    A. Prevention of blood clotting   **B.** Haemoglobin synthesis
    C. Proper vision   **D.** Improving digestion

20. Which of the following chemicals is used in the making of photographic films ?

    A. Sodium chloride   **B.** Silver bromide
    C. Aluminium hydroxide   **D.** None of the above

21. Name the last pop album of Michael Jackson to be released after his death?

    A. Billie Jean   **B.** Across Abbey Road
    C. This is it   **D.** Bridge Over Troubled Waters

22. Who is the Director of 'Three Idiots'?

    A. Prakash Jha   **B.** Raju Hirani   **C.** Priyadarshan   **D.** Vipul Shah

23. Where is the FIFA World Cup being held this year?

    A. England   **B.** Brazil   **C.** South Africa   **D.** Italy

24. Who wrote the book ' Dreams from my Father - A story of Race and inheritance'

    A. Al Gore   **B.** Barack Obama   **C.** Nelson Mandela   **D.** Sammy Davis

25. Who wrote the book ' Five Point Someone'

    A. Arvind Adiga   **B.** Chetan Bhagat   **C.** Vikram Seth   **D.** Amitav Ghosh

26. What does the Italian word 'graffiti' mean?

    A. Oil painting   **B.** Stained glass
    C. Scratched wall drawings   **D.** Abstract Art

27. Which city is the Capital of United Arab Emirates

    A. Dubai   **B.** Abu Dhabi   **C.** Sharjah   **D.** Ankara

28. The Punjabi word 'Sikh' means

    A. Priest   **B.** Disciple   **C.** Spiritual Leader   **D.** Pure

29. What does PETA stand for?

    A. Programme for Environmental Tracking Activities
    B. People for Ethical Treatment of Animals
    C. Programme for Employment of Tribal Artisans
    D. Proactive Engagement in Tribal Activism

30. Name of Jyoti Randhawa is associated with which of the following games ?

    A. Golf   **B.** Badminton   **C.** Hockey   **D.** Chess