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# **OSSSC**

## **Previous Year Paper**

### **(GPEO/SUI/PA) Prelims**

### **(GS) 2015**



# **SUI, GPEO, PA (Prelim) – 2015 – Set – 1**

**GS**

**33611**

## **: INSTRUCTIONS TO CANDIDATES :**

**THIS BOOKLET CONTAINS 100 QUESTIONS OF 1 MARKS EACH IN 23 PAGES.  
PLEASE CHECK THE QUESTION-SET BEFORE USE. IF ANY DEFECTS ARE  
NOTICED, PLEASE BRING IT TO THE NOTICE OF THE INVIGILATOR.**

1. Read the instructions carefully before using the OMR answer sheet provided.
2. Fill in Part – A of the OMR answer sheet first, mentioning the Roll No. and other data as applicable in the place(s) indicated therein and darken the appropriate circles in blue or black ball point pen only.
3. While darkening the circle in Part – B of the OMR answer sheet, use blue or black ball point pen only.
4. Do not write any name/surname or put any symbol, sign, slogan, prayer or any mark of identification in Part – B of the OMR answer sheet. **Any such act is liable to render the answer sheet unfit for evaluation.**
5. Do not use any other form except the OMR answer sheet provided along with the question-set.
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9. Return the OMR answer sheet **only** to the Invigilator before leaving the examination hall.
10. Candidates may take with them the respective question-sets after the examination is over.
11. Mobile Phone or any Communication Devices is not allowed inside the Examination Hall. The candidates are strictly advised **not to carry any Mobile Phone or Communication Devices with them into the Examination Hall.** Any candidate who is in **possession of Mobile Phone/Communication Devices** inside the hall is liable to be debarred from the valuation of his/her answer paper.
12. Violation of these instructions shall **entail disqualification of the candidate.**

WT – 1A/21

( Turn over )

**SEAL**

# SUI, GPEO, PA (Prelim) – 2015 – Set – 1

## **GS**

Time : 1½ Hours

Full Marks : 100

Each question carries 1 marks.

Answer **all** questions.

Answer **all** questions, choosing the correct **one** from the alternatives suggested and darken the appropriate circle using **BLUE or BLACK BALL POINT PEN**.

1. Who has been awarded with the Sveriges Riksbank Prize in Economic Sciences in memory of Alfred Nobel for the year 2015 ?
  - (1) Angus Deaton
  - (2) Aziz Sançar
  - (3) Paul Modrich
  - (4) Tomas Lindahl
  - (5) Youyou Tu
2. Which of the following awards received by Mr. Kailash Satyarthi has been conferred on him off late, in October 2015 ?
  - (1) Medal of the Italian Senate
  - (2) Nobel Peace Prize
  - (3) Robert F. Kennedy Human Rights Award
  - (4) Harvard 'Humanitarian of the Year' Title
  - (5) Defenders of Democracy Award
3. Which nation is going to host the ensuing Non-Aligned Movement Summit ?
  - (1) Cuba
  - (2) Egypt
  - (3) Iran
  - (4) Malaysia
  - (5) Venezuela
4. In which district is Amaravati, the newly planned capital city of Andhra Pradesh, coming up ?
  - (1) Guntur
  - (2) Krishna
  - (3) Ongole
  - (4) Prakasam
  - (5) West Godavari

WT – 1A/21

( 3 )

( Turn over )

5. Which of the following days is observed as a World Day on the 14th November ?
  - (1) World Diabetes Day
  - (2) World Pneumonia Day
  - (3) World Television Day
  - (4) World Toilet Day
  - (5) World Vegan Day
6. Which severe tropical cyclone had hit Phillipines in October 2015 ?
  - (1) Ignacio
  - (2) Koppu
  - (3) Nora
  - (4) Olaf
  - (5) Patricia
7. In which of the following cities the first ever day-night Test Cricket match was played between Australia and New Zealand ?
  - (1) Perth
  - (2) Melbourne
  - (3) Adelaide
  - (4) Brisbane
  - (5) Sydney
8. Which is currently the largest passenger aircraft in the world ?
  - (1) Airbus A380-800
  - (2) Airbus A340-600
  - (3) Antonov An-225
  - (4) Boeing 747-8
  - (5) Boeing 747 "Dreamlifter"
9. Who has translated the famous novel "Uncle Tom's Cabin" into Odia titled as "Tamakakanka Kutira" ?
  - (1) Fakir Mohan Senapati
  - (2) Gourishankar Ray
  - (3) Madhu Sudan Rao
  - (4) Radha Mohan Gadnayak
  - (5) Udayanath Sarangi
10. Who is the author of the Odia travelogue "Swapnara Alaska" ?
  - (1) Bhupen Mohapatra
  - (2) Binod Kanungo
  - (3) Manoj Das
  - (4) Pratibha Ray
  - (5) Sradhakar Supakar

11. The following have the same acronym 'FOL'. Which one does refer to a Buddhist Festival ?
- (1) Feast of Lanterns
  - (2) Feel Our Love
  - (3) Festival of Lakes
  - (4) Flash of Light
  - (5) Flavor of Love
12. Which of the following pairs of 'Durga Mata' temples and their locations is not correctly matched ?
- (1) Chamundeswari – Mysore
  - (2) Kamakshya – Guwahati
  - (3) Kanak Durga – Vijaywada
  - (4) Maa Bamleswari – Dongargarh
  - (5) Manasa Devi – Shimla
13. Which of the following tribal groups mainly inhabit in Central Part of India ?
- (1) Bhils
  - (2) Chenchus
  - (3) Gonds
  - (4) Mundas
  - (5) Santhals
14. Which of the following Microsoft Excel number formats shall return the figure 25 as 2.50E + 01 ?
- (1) Accounting
  - (2) Currency
  - (3) Fraction
  - (4) Percentage
  - (5) Scientific
15. Which of the keys does help in checking the spellings and grammar of text in a Microsoft Word document ?
- (1) Alt + F1
  - (2) Alt + F7
  - (3) Ctrl + [
  - (4) F1
  - (5) F7
16. Which of the following programming languages is used to create 'applets' to be placed on a web page ?
- (1) C++
  - (2) COBOL
  - (3) Java
  - (4) Pascal
  - (5) Visual Basic

17. Why do the rain bearing clouds have a dark colour ?

- (1) They absorb all sunlight falling on them
- (2) They absorb all terrestrial radiation
- (3) The condensed water droplets are saturated with dust particles
- (4) They scatter all sunlight falling on them
- (5) They reflect back all sunlight falling on them

18. We notice a spark while pulling out the electrical plug of an appliance. Which of the following properties of the appliance is responsible for this ?

- (1) Capacitance
- (2) Conductance
- (3) Inductance
- (4) Resistance
- (5) Wattage

19. Match the quantities in Column – A with their units in Column – B and select the correct set of answers ?

**Column – A**

- (a) Heat
- (b) Luminous flux

**Column – B**

- (i) Candela
- (ii) Decibel

**Column – A**

- (c) Magnetic intensity
- (d) Temperature
- (e) Viscosity

**Column – B**

- (iii) Joule
- (iv) Kelvin
- (v) Orsted
- (vi) Poise

	(a)	(b)	(c)	(d)	(e)
1	iii	ii	v	iv	i
2	iii	i	ii	iv	vi
3	iii	i	v	ii	vi
4	iii	i	v	iv	vi
5	ii	i	v	iv	vi

20. Which of the following principles / laws is applicable in the case of blowing away of roofs of the houses by a cyclonic storm ?

- (1) Archimedes' principle
- (2) Bernoulli's principle
- (3) Law of Inertia
- (4) Newton's 1<sup>st</sup> law of motion
- (5) Pascal's law

21. Which of the following is responsible for the formation of mirage in the desert ?

- (1) Refraction
- (2) Total internal reflection
- (3) Reflection
- (4) Diffraction
- (5) Polarisation

22. What is the function of heavy water in a nuclear reactor ?

- (1) It cools down the reactor
- (2) It enhances the speed of neutrons
- (3) It heats up the reactor
- (4) It slows down the speed of neutrons
- (5) It stops the nuclear reaction

23. Which one is the densest of the elements ?

- (1) Iridium
- (2) Osmium
- (3) Platinum
- (4) Rhenium
- (5) Uranium

24. What are the atoms having same number of neutrons called ?

- (1) Isobars
- (2) Isomers
- (3) Isosters
- (4) Isotones
- (5) Isotopes

25. Which of the following is not true for the cathode rays ?

- (1) They are deflected by magnetic field

- (2) They are positively charged
- (3) They cause mechanical motion
- (4) They produce heating effect
- (5) They travel in straight lines

26. Match the name of the compounds in Column – A with their chemical names in Column – B and select the correct set of answers :

**Column – A**

**Column – B**

- |                      |                            |
|----------------------|----------------------------|
| (a) Bleaching powder | (i) Calcium<br>Oxychloride |
| (b) Caustic potash   | (ii) Calcium<br>sulphate   |
| (c) Dry ice          | (iii) Carbon<br>dioxide    |
| (d) Plaster of Paris | (iv) Magnesium<br>sulphate |
| (e) Rock salt        | (v) Potassium<br>Hydroxide |
|                      | (vi) Sodium<br>chloride    |

	(a)	(b)	(c)	(d)	(e)
1	i	v	iii	ii	iv
2	i	v	iii	ii	vi
3	i	v	iii	iv	vi
4	i	v	iv	ii	vi
5	iv	vi	iii	ii	v

27. Which of the following processes is used to prepare industrial hydrogen ?
- (1) Bayer process
  - (2) Bessemer process
  - (3) Bosch process
  - (4) Down process
  - (5) Haber process
28. The cells in which of the following organs in the human body are the smallest ?
- (1) Brain
  - (2) Kidney
  - (3) Liver
  - (4) Spleen
  - (5) Tongue
29. Which one of the following is the primary sex organ in the females ?
- (1) Fallopian tubes
  - (2) Mammary glands
  - (3) Ovary
  - (4) Uterus
  - (5) Vulva
30. Following terms are related to human teeth. Distinguish the odd one out :
- (1) Canines
  - (2) Incisors
  - (3) Enamel
  - (4) Molars
  - (5) Premolars
31. For correcting which of the defects of eye is bifocal lens used ?
- (1) Cataract
  - (2) Glaucoma
  - (3) Hypermetropia
  - (4) Myopia
  - (5) Presbiopia
32. To which of the following types of plants do the mangrove trees belong ?
- (1) Epiphytes
  - (2) Halophytes
  - (3) Heliophytes
  - (4) Hydrophytes
  - (5) Sciophytes
33. Where was the High-level International Conference on "Climate Change", 2015 held ?
- (1) Bonn
  - (2) Johannesburg
  - (3) Kyoto
  - (4) Rio de Janeiro
  - (5) Stockholm

34. Which pair of the following photochemical pollutants are aromatics ?
- (1) Aldehydes and Ozone
  - (2) Aldehydes and Olefins
  - (3) Olefins and  $PB_2N$
  - (4) Ozone and PAN
  - (5) PAN and  $PB_2N$
35. The functional role of an organism in an ecosystem is known as :
- (1) Ecad
  - (2) Ecesis
  - (3) Ecological niche
  - (4) Standing crop
  - (5) Standing state
36. Which of the following was not a feature of the Rigvedic period in India ?
- (1) The Rigvedic Aryans were by and large urban people
  - (2) The Rigvedic family comprised husband and wife, parents and other kith and kin
  - (3) The Rigvedic people worshipped nature
  - (4) The Rigvedic society was mainly pastoral with evidence of agriculture
  - (5) The Rigvedic women were outspoken as well as highly respected
37. Which of the following Mahajanapadas was located in Dakshinapatha on the banks of River Godavari ?
- (1) Anga
  - (2) Asaka
  - (3) Malla
  - (4) Matsya
  - (5) Vajji
38. Who among the following emperors of Ancient India was known as "Amitraghata", i.e., the 'destroyer of foes' ?
- (1) Ajatashatru
  - (2) Bindusara
  - (3) Chandragupta Maurya
  - (4) Kaniska
  - (5) Samudragupta

39. 'Rudradaman' was one of the greatest rulers of Ancient India. To which of the following dynasty did he belong ?

- (1) Kushanas
- (2) Mauryas
- (3) Pallavas
- (4) Sakas
- (5) Sungas

40. To which of the following do the three terms — **Nagara**, **Dravida** and **Vesara** refer ?

- (1) Dance schools of Ancient India
- (2) Linguistic divisions of Ancient India
- (3) Musical Gharanas of Ancient India
- (4) Racial groups of Ancient India
- (5) Styles of temple architecture in Ancient India

41. Which of the following was not the principle of the Bhakti Movement ?

- (1) Bhakti, intense love and devotion, only way to salvation
- (2) Observance of rituals and ceremonies
- (3) Rejection of idol worship by many saints

(4) Self-surrender

(5) Unity of God

42. Which of the following pairs is incorrectly matched ?

- (1) Adil Shahi – Bijapur
- (2) Barid Shahi – Bidar
- (3) Imad Shahi – Berar
- (4) Nizam Shahi – Ahmednagar
- (5) Qutub Shahi – Aurangabad

43. Which of the following architectural structures is not a Mughal Creation ?

- (1) Hawa Mahal
- (2) Buland Darwaza
- (3) Lal Quila
- (4) Panch Mahal
- (5) Taaz Mahal

44. Which of the following forts was constructed by Langula Narasingha Deba, the ruler of Ganga Dynasty in Odisha ?

- (1) Barabati
- (2) Chudanga Gada
- (3) Jaugada
- (4) Raibania
- (5) Sishupalagarh

45. Who commanded the Maratha Army in the third Battle of Panipat ?
- (1) Dattaji Sindhia
  - (2) Malhar Rao Holkar
  - (3) Peshwa Madhab Rao
  - (4) Sadasiv Rao Bhau
  - (5) Vishwas Rao
- (c) Lord Wavell  
(d) Lord Willingdon
- (1) (a); (b); (c); (d)  
(2) (a); (d); (c); (b)  
(3) (c); (a); (d); (b)  
(4) (d); (a); (c); (b)  
(5) (d); (c); (a); (b)
46. Which of the following battles and corresponding treaties is not correctly matched ?
- (1) The First Anglo-Burmese War – Treaty of Bhamo
  - (2) The First Anglo-Sikh War – Treaty of Lahore
  - (3) The First Maratha War – Treaty of Salbai
  - (4) The Third Carnatic War – Treaty of Paris
  - (5) The Third Mysore War – Treaty of Srirangapatnam
48. Which of the following Sessions of Indian National Congress is memorable for its resolution on Fundamental Rights ?
- (1) The Gauhati Session, 1926
  - (2) The Madras Session, 1927
  - (3) The Calcutta Session, 1929
  - (4) The Karachi Session, 1931
  - (5) The Bombay Session, 1934
49. Which among the following places in India can be identified on the map by the location  $20^{\circ} 15' \text{ N}$  and  $85^{\circ} 52' \text{ E}$  ?
- (1) Bhubaneswar
  - (2) Kolkata
  - (3) Raipur
  - (4) Ranchi
  - (5) Vishakhapatnam
47. What is the correct chronological sequence of the following 'Viceroys' of British India ?
- (a) Lord Linlithgow
  - (b) Lord Mountbatten

50. Which of the following rivers is different from the other four in terms of its confluence with the river Ganga ?

- (1) The Gandak
- (2) The Ghaggar
- (3) The Kali
- (4) The Koshi
- (5) The Son

51. Which of the following islands in India is not formed by the corals ?

- (1) The Barren
- (2) The Car Nicobar
- (3) The Catchal
- (4) The Kavaratti
- (5) The Minicoy

52. Which of the Indian States has the longest coastline ?

- (1) Andhra Pradesh
- (2) Gujarat
- (3) Karnataka
- (4) Maharashtra
- (5) Odisha

53. Distinguish the odd one out :

- (1) The Anaimudi
- (2) The Kanchenjunga

- (3) The Namcha Barwa
- (4) The Nanda Devi
- (5) The Trishul

54. Which of the following trees is not found in the monsoon forests of India ?

- (1) Laurel
- (2) Poplar
- (3) Rosewood
- (4) Sal
- (5) Teak

55. Which country has the largest area in the world ?

- (1) Brazil
- (2) Canada
- (3) China
- (4) Russia
- (5) United States

56. Which of the following iron and steel plants is different from the other four on the basis of its time period of establishment ?

- (1) Bhadravati
- (2) Bumpur
- (3) Jamshedpur
- (4) Kulti
- (5) Vijayanagar

57. Which soils cover the largest area in India ?

- (1) Alluvial
- (2) Black
- (3) Desert
- (4) Lateritic
- (5) Red and Yellow

58. Which of the following pairs is incorrectly matched ?

- (1) The Chambal – Maharana  
Pratap Sagar
- (2) The Kaveri – Krishna Raja  
Sagar
- (3) The Koyena – Sivasagar
- (4) The Narmada – Indira Sagar
- (5) The Sutlej – Govind Sagar

59. Which of the following Railway zones is different from the other four in terms of its status ?

- (1) East Coast Railways
- (2) Konkan Railways
- (3) South East Central Railways
- (4) South Western Railways
- (5) West Central Railways

60. Which of the following is an artificial port in India ?

- (1) Kochi
- (2) Mumbai
- (3) Panambur
- (4) Paradip
- (5) Vishakhapatnam

61. Who among the following is not appointed by the President ?

- (1) Chairman, Rajya Sabha
- (2) Chairman, Union Public  
Service Commission
- (3) Comptroller and Auditor  
General
- (4) Chief Election Commissioner
- (5) Chief Justice of the Supreme  
Court

62. What is the minimum age for election / appointment as a member of the Rajya Sabha ?

- (1) 21
- (2) 25
- (3) 30
- (4) 35
- (5) 40

63. What fraction of the total membership of the house is the required quorum to hold meetings of the Legislative Assemblies ?
- (1)  $\frac{1}{3}$
  - (2)  $\frac{1}{4}$
  - (3)  $\frac{1}{5}$
  - (4)  $\frac{1}{6}$
  - (5)  $\frac{1}{10}$
64. Which of the following Articles of the Indian Constitution refers to proclamation of Financial Emergency ?
- (1) Article 352
  - (2) Article 356
  - (3) Article 358
  - (4) Article 360
  - (5) Article 370
65. Which of the following does not come under "Citizenship by registration" in India ?
- (1) A foreigner having normally resided in India for at least 10 years immediately before making an application
  - (2) Minor children of persons who are citizens of India
  - (3) Persons of Indian origin who are ordinarily resident in any country or place outside India
  - (4) Persons of Indian origin who are ordinarily resident in India for five years immediately before making an application
  - (5) Women of foreign origin those who are married to citizens of India
66. Which of the following statements about the Attorney General of India is not true ?
- (1) A person qualified to become a Supreme Court Judge can become the Attorney General
  - (2) He is appointed by the President
  - (3) He can take part in the proceedings of the Parliament and its committees
  - (4) He is not allowed to take up private practice
  - (5) He is the highest legal officer of the Union Government

67. In which state of India is the "Fundamental Rights to Property" in vogue ?
- (1) Arunachal Pradesh
  - (2) Goa
  - (3) Jammu and Kashmir
  - (4) Nagaland
  - (5) Sikkim
68. The words "Satyameva Jayate" has been inscribed below the abacus in the National Emblem of India. From which of the following scriptures has this been adopted ?
- (1) Aitareya Upanishad
  - (2) Isha Upanishad
  - (3) Maitrayani Upanishad
  - (4) Mundaka Upanishad
  - (5) Prashna Upanishad
69. Who among the following is status-wise different from the other four as per the Table of Precedence of the Government of India ?
- (1) Chairman, Central Administrative Tribunal
  - (2) Chairman, Minorities Commission
  - (3) Chairman, Monopolies and Restrictive Trade Practices Commission
  - (4) Chairman, Scheduled Caste and Scheduled Tribe Commission
  - (5) Chairman, Union Public Service Commission
70. During which Five Year Plan was the "Scheme of Integrated Development of Small and Medium Towns" launched in India ?
- (1) Fourth Plan
  - (2) Fifth Plan
  - (3) Sixth Plan
  - (4) Eighth Plan
  - (5) Tenth Plan
71. Which of the following is the 'unemployment during the recessionary phase of a trade cycle' ?
- (1) Cyclical unemployment
  - (2) Disguised unemployment
  - (3) Frictional unemployment
  - (4) Institutional unemployment
  - (5) Voluntary unemployment

72. Who among the following can take benefit from the Social Security Fund established by Government of India for unorganized workers ?

- (1) Hawkers in public transport vehicles
- (2) Labourers in construction work
- (3) Labourers in Textile Mills
- (4) Rickshaw pullers
- (5) Workers in the Sugar Mills

73. Which of the following new series of coins put in circulation in India w.e.f. 2011, are the legal tender ?

- (1) 50 paise
- (2) One rupee
- (3) Two rupees
- (4) Five rupees
- (5) Ten rupees

74. Which of the following places does not have a regional office of the Reserve Bank of India ?

- (1) Aizawl

- (2) Dehradun
- (3) Jammu
- (4) Kochi
- (5) Vishakhapatnam

75. Which of the following incomes is chargeable to Income Tax in India ?

- (1) Agricultural income
- (2) Income from gratuity of a government employee
- (3) Profit or gains from the transfer of capital assets
- (4) Receipts from Hindu undivided family
- (5) Shares from a partnership firm

76. Identify the bank that is different from the other four in terms of its management ?

- (1) Axis Bank
- (2) HDFC Bank
- (3) ICICI Bank
- (4) IDBI Bank
- (5) IDFC Bank

77. Which one of the following CPSUs in India is not a 'Maharatna' Company ?

- (1) Bharat Heavy Electricals Ltd.
- (2) Coal India Ltd.
- (3) Indian Oil Corporation Ltd.
- (4) Oil India Ltd.
- (5) Steel Authority of India Ltd.

78. Which State in India is the most urbanised as per the 2011 Census ?

- (1) Gujarat
- (2) Kerala
- (3) Maharashtra
- (4) Tamil Nadu
- (5) Telengana

79. What is the sum total of all the numbers from 101 to 200 ?

- (1) 5050
- (2) 10050
- (3) 15050
- (4) 18050
- (5) 20100

80. The square root of which of the following numbers is an integer ?

- (1) 3625
- (2) 4925
- (3) 6225
- (4) 6425
- (5) 8125

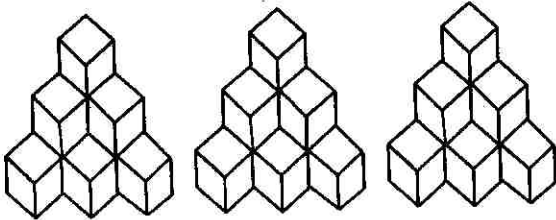
81. The sum total of the ages of the son and his father is 58 years. If 7 years after the ratio of the ages of son and father will be 1:3, then what is the age of son now ?

- (1) 9
- (2) 10
- (3) 11
- (4) 12
- (5) 13

82. Which of the following figures is exactly divisible by 39 ?

- (1) 22885
- (2) 25584
- (3) 26609
- (4) 27636
- (5) 28015

83. How many cubes are there in the following figure ?



- (1) 18  
(2) 21  
(3) 24  
(4) 27  
(5) 30
84. In a financial institution any amount kept in fixed deposit for five years matures to double the amount. If a person had invested Rs. 4,000/- in each of the years – 2001, 2006 and 2011, what is the total amount he will get in 2016 ?
- (1) Rs. 24000  
(2) Rs. 28000  
(3) Rs. 40000  
(4) Rs. 56000  
(5) Rs. 76000
85. Which of the following values of  $x$  and  $y$  would not yield integers for the following term ?  
 $\sqrt{(x^2 + y^2)}$
- (1) 10 and 24  
(2) 12 and 16  
(3) 15 and 20  
(4) 16 and 30  
(5) 20 and 32
86. What is the value of  $x$  in the following equation ?  
 $5x^2 - 75x = 380$
- (1) 4  
(2) 7  
(3) 15  
(4) 19  
(5) 23
87. A rectangle ABCD has dimensions of 20 cm and 30 cm. What is the maximum number of circles of radius 1 cm can be drawn within the rectangle without intersecting each other ?
- (1) 150  
(2) 180  
(3) 190  
(4) 191  
(5) 200

88. A job was assigned to Ranjan, Deba and Brundaban on wage contract of Rs. 1058. If Ranjan and Deba together complete  $\frac{19}{23}$  part of the work and the rest of the work is completed by Deba and Brundaban, then how much wage is Ranjan going to get ?

- (1) Rs. 92
- (2) Rs. 345
- (3) Rs. 437
- (4) Rs. 529
- (5) Rs. 613

89. The total emoluments of Chinmay and Manish per month are the same. However, they get allowances on their basic pays at the rate of 65% and 80% respectively. What is the ratio between their basic pays ?

- (1) 7 : 5
- (2) 10 : 9
- (3) 11 : 10
- (4) 12 : 11
- (5) 13 : 12

90. A 10 rupee coin is placed on a flat surface. If few more 10 rupee coins are to be placed encircling around it

such that each coin touches the adjacent one, then how many more coins are required ?

- (1) Five
- (2) Six
- (3) Seven
- (4) Eight
- (5) Ten

91. The interior angles of which of the following regular polygons is  $140^\circ$  each ?

- (1) Hexagon
- (2) Heptagon
- (3) Octagon
- (4) Nonagon
- (5) Decagon

92. A 150 m long express train crosses a electric pole in 15 seconds and a train of same length moving in opposite direction in 8 seconds. What is the speed of the second train ?

- (1) 96 km/hour
- (2) 97 km/hour
- (3) 98 km/hour
- (4) 99 km/hour
- (5) 100 km/hour

93. The X and Y coordinates of six points on a graph are given below. Which point is at the least distance from the point 'O' ?

Points	X-Coordinates	Y-Coordinates
O	48	41
P	21	38
Q	21	39
R	20	40
S	20	41
T	19	41

- (1) P  
(2) Q  
(3) R  
(4) S  
(5) T
94. Two circles touch internally. The difference between their areas is  $1120 \pi \text{ cm}^2$  and the distance between their centres is 28 cm. What is the radius of the larger circle ?

- (1) 24 cm  
(2) 28 cm  
(3) 30 cm  
(4) 34 cm  
(5) 40 cm

95. Find the missing number in the following series.

3, 7, 19, 55, \_\_\_\_, 487

- (1) 127  
(2) 142  
(3) 151  
(4) 163  
(5) 176

96. If in a coded language DREAM is written as ETHER, then what will be the coded word for COMBAT ?

- (1) DQPFFA  
(2) DPOFFZ  
(3) DQPFEZ  
(4) DQPFFZ  
(5) EQPFFZ

97. What is the angle between the minute hand and the hour hand at 3.30 P.M., measured clockwise ?

- (1)  $75^\circ$   
(2)  $90^\circ$   
(3)  $240^\circ$   
(4)  $270^\circ$   
(5)  $285^\circ$

98. A wholesaler mixed groundnut oil and rape seed oil in the proportion of 7:5. A retailer purchased some quantity of the admixture from the wholesaler, from which he took out 9 litres and added similar amount of rape seed oil. If the ratio of the two oils now becomes 7:9, then what was the quantity purchased by the retailer from the wholesaler ?

- (1) 24 litres
- (2) 30 litres
- (3) 36 litres
- (4) 42 litres
- (5) 48 litres

99. Gandhi Jayanti was celebrated on the 2<sup>nd</sup> October, 2015, which was a Friday. What will be the week day on which Gandhi Jayanti will fall in the year 2025 ?

- (1) Sunday
- (2) Monday

- (3) Tuesday
- (4) Thursday
- (5) Friday

100. Bikram starts moving from a point A towards west by 20 metres and reaches point B, from where he moves to the right for 35 meters to reach point C. He then turns east by 50 meters to point D and then moves right by 65 meters to point E. From the point E he moves west by 30 meters to reach the destination F. On which direction of point F is point A ?

- (1) North
- (2) South
- (3) East
- (4) West
- (5) South-West

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