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**Question Paper Code : 40713**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Second Semester

Civil Engineering

HS 8251 — TECHNICAL ENGLISH

(Common to : Aeronautical Engineering/Aerospace Engineering /Agriculture Engineering/Automobile Engineering /Biomedical Engineering/Computer Science and Engineering/Computer and Communication Engineering/Electrical and Electronics Engineering/Electronics and Communication Engineering/ Electronics and Instrumentation Engineering/Electronics and Telecommunication Engineering/Environmental Engineering/Geoinformatics Engineering/Industrial Engineering/Industrial Engineering and Management/Instrumentation and Control Engineering/Manufacturing Engineering/Material Science and Engineering/ Mechanical Engineering/Mechanical Engineering (Sandwich)/Mechanical and Automation Engineering/Mechatronics Engineering/Medical Electronics/ Petrochemical Engineering/Production Engineering/Robotics and Automation/Safety and Fire Engineering/Artificial Intelligence and Data Science/Biotechnology/ Biotechnology and Biochemical Engineering/Chemical Engineering/ Chemical and Electrochemical Engineering/Computer Science and Business System/ Fashion Technology/Food Technology/Handloom and Textile Technology/Information Technology/Petrochemical Technology/Petroleum Engineering/ Pharmaceutical Technology/Plastic Technology/ Polymer Technology/Textile Chemistry/ Textile Technology)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Make sentences expressing purpose using the given hints : (2 × 1 = 2)
  - (a) Chronometer : determines longitude of a vessel at sea.
  - (b) Fathometer : measures depth of the ocean.

2. Write an extended definition for any two the following terms : (2 × 1 = 2)
- desalination
  - solar panel
  - recycle bin
3. Choose the correct form of verb that agrees with the subject : (4 × 1/2 = 2)
- Each of the girls ————— (observe/observes) all the regulations.
  - The weather on the coast ————— (appear/appears) to be good this weekend.
  - Either the cups or the glasses ————— (are/is) in the dishwasher.
  - Neither Matt nor his brothers ————— (was/were) at the party.
4. Expand the following compound nouns : (4 × 1/2 = 2)
- wheelchair
  - computer game
  - bookshelf
  - doormat
5. Rewrite the following sentences in the passive : (2 × 1 = 2)
- They aren't feeding the lions at the moment.
  - My classmates have decorated our classroom.
6. In summer, water scarcity is a major problem in all places. Write a set of four instructions to be followed by students in the college hostel to save water. (4 × 1/2 = 2)
7. Complete the following conditional sentences : (2 × 1 = 2)
- If I won the lottery, I ————— (buy) a house in Chennai.
  - The door will unlock if you ————— (press) the green button.
8. Match the words in column 'A' with their meanings in column 'B' : (4 × 1/2 = 2)
- | A               | B   |
|-----------------|---|
| (a) revamp      | an arrival of large numbers of people or things |
| (b) segregation | discarded metal for reprocessing                |
| (c) influx      | renovate or revise                              |
| (d) scrap       | to keep one thing separate from another         |

9. Rewrite the following short conversation in the form of a reported speech : (4 × 1/2 = 2)

Father : Why are you late from school, Amit?

Amit : While coming from school to bus stop, I slipped by stepping on a banana peel.

Father : Did you hurt yourself?

Amit : I got a bad bruise on my left knee.

10. Fill in the blanks with the most suitable sequence connectors : (4 × 1/2 = 2)

(a) An hour passed but there was no sign of Philip Larkin. \_\_\_\_\_, we decided to go home. (Until, Before, Finally)

(b) My friend was in the dentist's office for ten minutes. \_\_\_\_\_, I sat in the waiting room with an old magazine in my hands. (First, Meanwhile, Later)

(c) \_\_\_\_\_, heat the oil in the frying pan. Then put in all the marinated chicken pieces. (Before, After, First)

(d) The men went to a nearby restaurant for breakfast. \_\_\_\_\_, they drove off towards the Penang Bridge (After, Afterwards, Meanwhile)

PART B — (5 × 16 = 80 marks)

11. (a) Read the following passage and answer the questions that follow : (16)

Drivers on the Basingstoke by-pass used to have their attention diverted by a sign that read - A MOMENT'S INATTENTION CAUSES ACCIDENTS. This self-defeating warning has now been removed, but its message is still very much to the point.

Almost anything can cause an accident. Apart from momentary intention, it might be a minor miscalculation, a sudden fit of coughing, a bop on the head with a teddy-bear from a child in the back seat, an argument with the wife, fog, falling asleep at the wheel, bad eyesight, a glaring sun, ice, rain, wind, or snow – all these can make the difference between a tragic hit and a lucky miss.

Although human error plays its part, it is by no means the only cause of accidents. There must be some cause other than simple human error. Road construction plays its part : researchers have found that it is not at the obvious danger spots – sharp corners, cross-roads, narrow lanes – that accidents happen. It is on those roads where there are subtle visual traps, unexpected changes in the shape or surface of the road, or even insufficient or badly-placed signs. Wherever there is a black spot', it means that something is seriously wrong with the road. Why else did the careless driving of so many come out at that particular spot?

There are, firstly, the legal formalities of exchanging names and addresses with others involved in an accident and, in certain cases, informing the police. However, you are required by law to stop after an accident only if:

- (1) Somebody other than yourself in or outside your car has been injured.
- (2) A vehicle not your own has been damaged.
- (3) Any horse, cow, donkey, sheep, or dog has been injured.

It has been said that if a driver continues unaware of causing injury he must be acquitted. But the courts are wary of that excuse. Furthermore the driver himself must wait at the scene; it is not enough for him to leave his chauffeur or a friend to attend to the boring formalities while he goes off on more important business.

If you have been involved in an accident and have stopped, you must give your name, address, and registration number to anyone who has a good reason for requesting it; this means anyone affected by the accident. If somebody is injured, the driver must produce his insurance certificate on request. If these formalities are complied with it is not necessary to wait for the arrival of the police. It is, however often wise to do so. The police are expert at drawing plans, taking measurements and photographs and gathering other evidence. In your absence the police could be given a biased story against you; and you yourself might want to point out certain features of the accident to the police.

- (i) Choose the response which best reflects the meaning of the text.  
(5 × 1 = 5)

- (1) 'A MOMENTS'S INATTENTION CAUSES ACCIDENTS' (paragraph-1) is a self-defeating warning because
  - (A) it is not true.
  - (B) it will distract the driver's attention
  - (C) it is too difficult to understand
  - (D) it is too long to be read while driving a car.
- (2) '\_\_\_\_\_ by no means the only cause of accidents' (paragraph - 3), means
  - (A) without doubt
  - (B) in no way
  - (C) probably not
  - (D) surely not
- (3) "subtle visual traps" (paragraph -3), are
  - (A) places where the police hide in order to trap motorists.
  - (B) pans of the road which are deceptive to the driver's eye.
  - (C) danger spots such as sharp corners and cross-roads.
  - (D) places where there are too many road-signs

- (4) You must stop after an accident, if
- (A) You have been injured by somebody.
  - (B) Your car has been damaged.
  - (C) You have injured somebody else.
  - (D) You have witnessed the accident.
- (5) After an accident you should wait for the police because
- (A) it is against the law to drive off.
  - (B) they have to examine your papers.
  - (C) somebody may give them a false account of the accident.
  - (D) they have to note the position of your car.
- (b) State whether the following statements are true or false : (7 × 1 = 7)
- (i) Drivers on the Basingstoke by-pass used to ignore the sign.
  - (ii) Road construction is one of the causes of accidents.
  - (iii) A 'black spot' is a part of the road where there are no signs.
  - (iv) You have to stop after an accident even if you are the only person who has been injured.
  - (v) If a driver does not stop after an accident he cannot be taken to court.
  - (vi) After an accident you have to give your name to anyone affected by the accident.
  - (vii) If you do not wait for the police after an accident they will make up a story against you.
- (c) Choose the right meaning for the given words based on the passage : (4 × 1 = 4)
- (i) diverted (paragraph-1)
 

(A) attracted	(B) sharpened
(C) improved	(D) tested
  - (ii) insufficient (paragraph-3)
 

(A) too small	(B) too few
(C) too confusing	(D) too old
  - (iii) acquitted (paragraph-5)
 

(A) arrested	(B) fined
(C) released	(D) prosecuted
  - (iv) complied with (paragraph-6)
 

(A) understood	(B) observed
(C) explained	(D) forgotten

12. (a) Deforestation means cutting down the forests that are home to the large chunks of oxygen giving trees, plants and numerous wild animals and birds. It is harming humans as well as animals alike. Write a set of eight recommendation to prevent deforestation. (16)

Or

- (b) Imagine that you have planned to go abroad for your studies. Prepare a checklist of eight important items that you have to take for travelling abroad. Give a suitable title for the checklist. (16)

13. (a) The table given below shows the details of medals won by ten countries in Asian Games 2018. India slips to eighth position with record tally. Write two paragraphs interpreting the details found in the chart. (16)

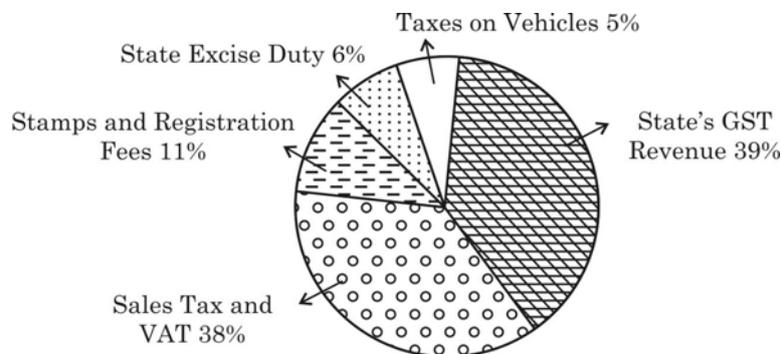
Asian Games 2018 Medal Tally

Rank	Country	Gold	Silver	Bronze	Total
1	China	132	92	65	289
2	Japan	75	56	74	205
3	Republic of Korea	49	58	70	177
4	Indonesia	31	24	43	98
5	Uzbekistan	21	24	25	70
6	Iran	20	20	22	62
7	Chinese Taipei	17	19	31	67
8	India	15	24	30	69
9	Kazakhstan	15	17	44	76
10	DPR Korea	12	12	13	37

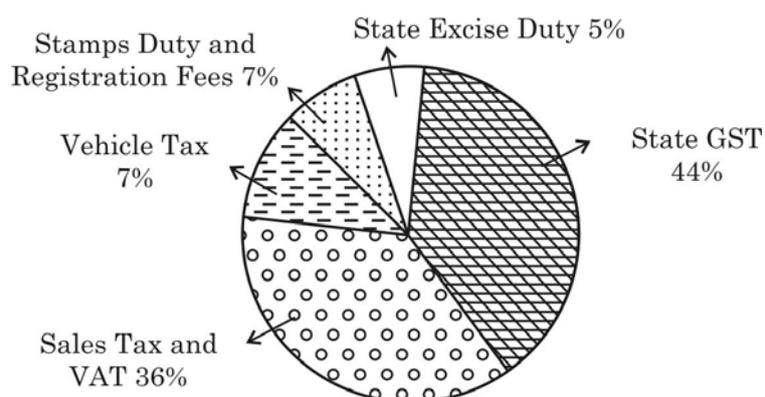
Or

- (b) The pie charts given below are the tax revenue for the two states such as Tamil Nadu and Kerala. The charts exclude some other taxes which form the rest 1% of this revenue. Write two paragraphs interpreting the details given in the two pie charts. (16)

Composition of the Tamil Nadu state's Tax Revenue in 2019-20



Composition of the Kerala state's tax revenue in 2019-20



14. (a) Read the following advertisement published in 'The New Indian Express' and write a letter of application. Enclose your detailed resume with the letter of application (16)

*AA Man Power Solutions, Bangalore needs Technical Associates*

Salary : Rs. 25,000/ per month

Education : BE. / B. Tech.

Designation : Technical Associate

Experience : 2 years

Desirable skills : Technical writing skills, creativity and analytical skills, knowledge in software tools like MATLAB, NS2, Ansys, VLSI, and Embedded

Send your application to The HR Manager, AA Manpower Solutions, 12<sup>th</sup> Cross Rd, 3rd Block, Sadashiva Nagar, Armane Nagar, Bangalore – 560080.

Or

- (b) Read the advertisement uploaded in the website – <http://pinnacle.com/> and write your cover letter in the email format and the resume in the attachment file format and send them to the following email ID: [pinnaclehr@gmail.com](mailto:pinnaclehr@gmail.com). (16)

*Pinnacle Software Company requires Associate Analyst*

Eligibility: (1) Any Graduate; (2) Should be flexible to work in any shifts

Skills Required: Communication and analytical skills

Salary: Rs. 22,000/ per month

Location of Posting : Chennai

Experience : 0 – 1 Year.

Send your application with the detailed resume to the email ID : [pinnaclehr@gmail.com](mailto:pinnaclehr@gmail.com).

15. (a) Survey report :

Rayan is a charitable trust that wants to donate an amount of Rs. 50 lakhs to the Green Care Old age home situated in the outskirts of Chennai. The trust wants to improve the quality of health care and hygienic condition in the old age home. The Chairman of the trust asks you to conduct a survey among senior citizens of the home to know about their requirements like medical facilities, wheel chairs, books, adjustable beds, footpath, warm water, etc. Write a report not exceeding 250 words based on the survey with a cover letter and send it to the Chairman, Rayan Charitable Trust, Chennai – 600 098. (16)

Or

(b) Accident report :

A major fire broke out in a cloth shop in Goregaon two days back. There were no casualties as the incident happened in the early morning. The local people first noticed the smoke coming out of the workshop and informed the fire officials. The fire Brigade struggled hard to douse the fire in the shop. A large stock of clothes, dying machines, furniture, electric wirings and installations were damaged in the fire. As you are the Divisional Fire Officer in that region, the district collector asks you to submit a detailed report based on your enquiry with the workers of the cloth shop and local people. Write a report about the accident with a cover letter to the District Collector, Mumbai suburban district, Maharashtra. (16)

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